

Service Manual

CQ-E15EUC

Removable Face High-Power Cassette / Receiver



SPECIFICATIONS*

General

Power Supply	: 12V DC (11~16V), Test Voltage 14.4V, Negative Ground
Maximum Power Output	: 25W × 2ch (at 400Hz, Volume Control max.)
Power Output	: 11W per channel into 4Ω, 40 to 30,000Hz at 3% T.H.D.
Tone Action	: Bass ; ± 12dB at 100Hz Treble ; ± 12dB at 10kHz
Current Consumption	: Less than 2.5A (Tape mode, 0.5W 4-speaker)
Speaker Impedance	: 4Ω (4~8Ω acceptable)

AM Radio

Frequency Range	: 530kHz~1,710kHz
Usable Sensitivity	: 28dB/μV (25μV, S/N20dB)

FM Stereo Radio

Frequency Range	: 87.9MHz~107.9MHz
Usable Sensitivity	: 15.2dBf. (1.6μV, 75 ohms)
Frequency Response	: 30 to 15,000Hz (± 3dB)
Alternate Channel Selectivity	: 75dB
Stereo Separation	: 35dB at 1kHz
Signal to Noise Ratio	: 70dB (Mono)

Tape Player

Reproduction System	: 4-Track, 2-Program Stereo
Tape Speed	: 1-7/8"/sec. (4.76 cm/sec.)
FF/REW Time	: Less than 110 sec. (C-60)
Frequency Response	: 35~14,000Hz, ± 3dB
Wow and Flutter	: 0.12% (WRMS)
Signal to Noise Ratio	: 52dB

Dimensions**	: 7"(W) × 1-15/16"(H) × 5-7/8"(D) (178(W) × 50(H) × 150(D) mm)
---------------------	---

Weight**	: 3lbs 8oz (1.6kg)
-----------------	--------------------

* Specifications and the design are subject to possible modification without notice due to improvements.

** Dimensions and Weight shown are approximate.

● Above specifications comply with EIA standards.

Panasonic®

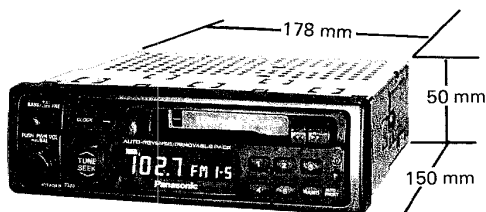
©1996 Matsushita Communication Industrial Co., Ltd.
All rights reserved. Unauthorized copying and distribution is a violation of law.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

CONTENTS

	Page
DIMENSIONS	1
FEATURES	1
REPLACEMENT FUSE	1
MAINTENANCE	1
RADIO AND CD DECK ALIGNMENT	1
ALIGNMENT JIG	1
< OPERATING INSTRUCTIONS >	
Power and Sound Control	2
Radio Basics	3
Cassette Tape Play Basics	4
CD Changer Basics	5
Clock Basics	6
Installation Guide	6~11
Troubleshooting	11
BLOCK DIAGRAM	12
TERMINALS DESCRIPTION	12
ALIGNMENT INSTRUCTIONS	12
SCHEMATIC DIAGRAM (Main)	13
WIRING DIAGRAM (Main)	14
PACKAGE AND IC BLOCK DIAGRAM	15
SCHEMATIC DIAGRAM (Display)	15
WIRING DIAGRAM (Display)	16
REPLACEMENT PARTS LIST	17~24, 27
EXPLODED VIEW (Unit)	25
EXPLODED VIEW (Tape Deck)	26
PACKING PARTS LIST	28

DIMENSIONS**FEATURES**

- PLL (Phase Locked Loop) Synthesized Tuning.
- Memory buttons for preset stations 5-AM/15-FM (FM1, 2, 3).
- Auto preset and scan function.
- Auto reverse cassette player.
- Clock function.
- CD Changer Control. (CQ-E05EUC only)

REPLACEMENT FUSE

Use a fuses of the same specified rating (1 or 7 amps). Using different substitutes or fuses with higher ratings, or connecting the unit directly without a fuse, could cause fire or damage to the stereo unit.

MAINTENANCE

Your product is designed and manufactured to ensure a minimum of maintenance. Use a soft cloth for routine exterior cleaning. Never use benzine, thinner, or other solvent.

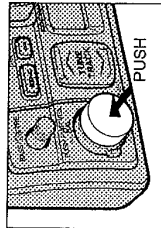
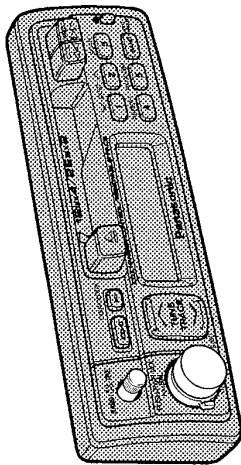
RADIO BLOCK ALIGNMENT

Do not align the AM and FM package blocks. When the package block is necessary, it will be supplied already aligned at the factory.

ALIGNMENT JIG

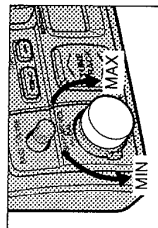
Head Hight Alignment ;
Test Tape : QZZCRD

Power and Sound Controls



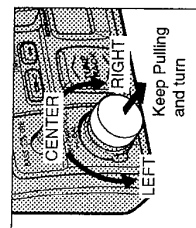
Power

Turn the ignition key on.
Push the knob to switch on the power.
To turn the power off, push the knob again.



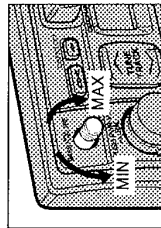
Volume

Turn the knob clockwise to increase volume, and counterclockwise to decrease volume.



Balance

Keep pulling the knob and turn it to the left or right to shift the sound volume to the left or right speakers.

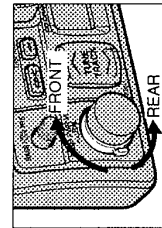


Bass and Treble

Bass control : Turn the knob to adjust bass response.



Treble control : Pull and lock the knob and turn to adjust treble response.
After adjusting, press the knob in.

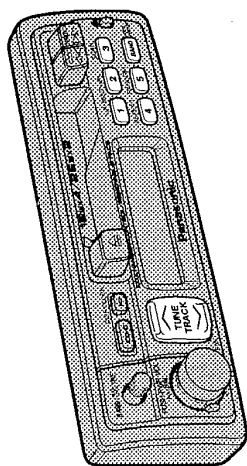


Fader

Turn to the left or right to shift the sound volume to the rear or front speakers.

CAUTION: Fader Control does not affect the output of the amplifier connected to this unit's preout cord.

Radio Basics



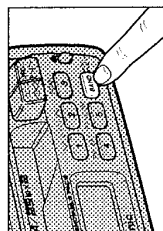
Selecting a Band

Press BAND to select the bands in the following order:

FM1 → FM2 → FM3 → AM

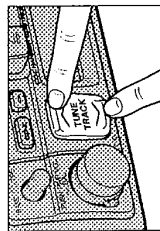
"ST" indicator lights if the station is broadcasting in stereo.

102.7 FM2



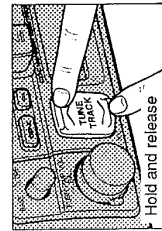
Manual Tuning

Press "Δ TUNE" or "∇ TUNE" to move to a higher or lower frequency.



Seek Tuning

Press and hold "Δ TUNE" or "∇ TUNE" for more than a half second, then release. The radio automatically stops on the next station.



Preset Station Setting

Up to 20 stations can be preset in the station memory as follows;

FM1	FM2	FM3	AM
5 stations	5 stations	5 stations	5 stations

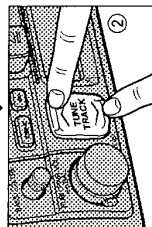
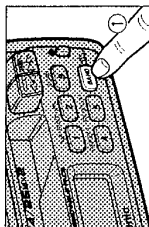
Manual Station Preset

- 1 Press BAND to select a desired band.
- 2 Use manual or seek tuning to find a station that you want to program into memory.
- 3 Press and hold one of the station selector buttons 1 through 5 until the display blinks. The memory is now set for that button on the band you have selected.

Repeat the process to set other stations for the FM1 to AM bands.

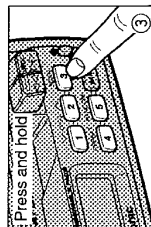
102.7 FM24

Note: You can change the memory setting by repeating the above procedure.



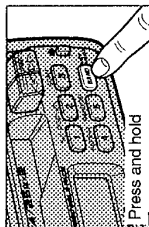
Tuning in a Preset Station

Press any of the buttons 1 through 5 to tune in the station preset by the above steps ① to ③.

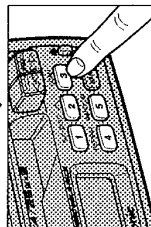


Auto Station Preset

- Select a band and press and hold BAND for more than 2 seconds.
- The five strongest available stations will be automatically set in memory on preset buttons 1 through 5.
 - Once set, the preset stations are sequentially scanned for 5 seconds.

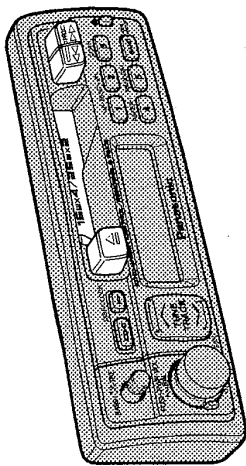


- Press the appropriate preset button for the station you want to hear.



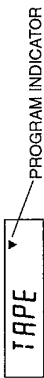
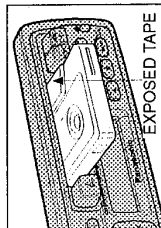
CAUTION: For safety reasons, do not attempt to program while driving.

Cassette Tape Player Basics



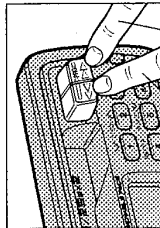
Loading a Cassette

Gently insert the cassette with the exposed tape facing to the right until the mechanism captures it, and playback starts.



Rewind and Fast Forward

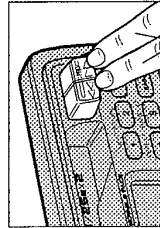
Press and engage either ◀◀ (REW) to rewind or ▶▶ (FF) to fast forward the tape.



To stop rewind or fast forward, gently press the button that is not in use. The tape will resume playing from that position.
If you rewind the tape fully, it will play on the same program side again.
If you fast forward to the end, play will resume from the beginning of other side of the tape.

Changing Sides

Firmly press ◀◀ (REW) and ▶▶ (FF) at the same time to switch to the program on the other side of the tape.
The display changes to indicate which program is playing.

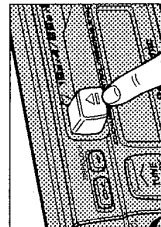


Stopping and Ejecting the Tape

Once inserted into the unit, your tape will play continuously until you eject it.

If you press and engage ▲ (EJECT), the unit clears the tape and returns to radio operation.

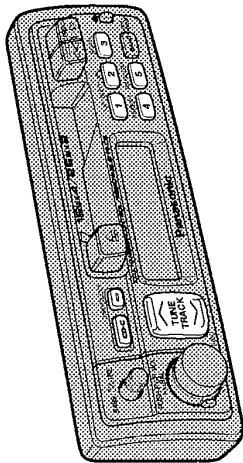
When you shut off the car engine, the tape will stop but not eject.



Note: Always remove the cassette when you are done using the cassette player. This will prolong the life of your tape.

CAUTION: To maintain your cassette player in top condition, avoid using tapes that are longer than 90 minutes (C-90).

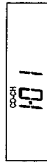
CD Changer Basics



Note: This unit's compact disc controller is compatible with the current models CX-DP1200 and CX-DP600 and older models CX-DP60 and CX-DP15. The general instructions of CD changer are covered here. The display functions shown here are for CX-DP1200 and CX-DP600 only. For further details about loading CDs and hooking up to this unit, refer to your CD changer instruction manual.

To start the CD Player

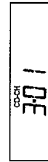
With a disc magazine inserted in the CD Changer, press CD • C. Play starts from first track.



Note: The cassette, if loaded, should be removed. Otherwise, the CD play won't start.

Selecting a Disc

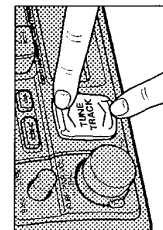
Press "V-DISC" or "DISC-^" to select discs in descending or ascending order.



The disc number indicator blinks and the track number indicator stays illuminated until the selected disc is loaded.

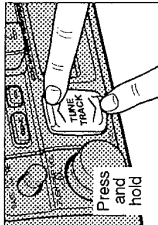
Selecting a Track

Press "TRACK ^" once to go to the next track. Press repeatedly to step forward through all the tracks.
Press "V TRACK" once to play from the beginning of the current track. Press twice to play the previous track. Press repeatedly to step backward through all the tracks.



Searching a Track

Press and hold "TRACK ^" or "V TRACK" for more than a half second to activate fast forward or reverse through a track. Release "TRACK ^" or "V TRACK" to resume the normal CD play from that position.



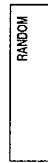
Repeating a Track

Press REPEAT to repeat the current selection. "REPEAT" indicator lights. The current selection continues to repeat until you press REPEAT again.



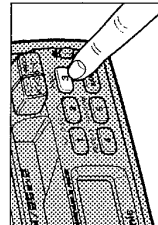
Random Selection

Press RANDOM. "RANDOM" indicator lights. A random selection of music is played from all available CDs. To turn off, press RANDOM again.



Scanning Tracks

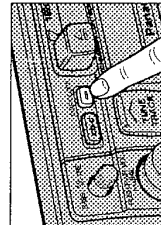
Press SCAN. The display blinks and the first 10 seconds of each track on the discs play in sequence.
To stop scanning and continue with the current track, press SCAN again.



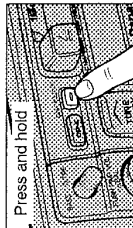
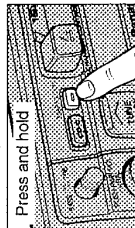
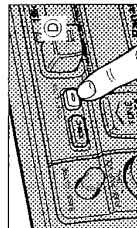
Changing the Display

Press DISP to switch the display in sequence as follows.

Disc/Track Number
↑
Track Play Time

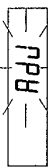


Note: To change to the Radio mode, press BAND.



Initial Time Setting

- Ⓐ Press and hold DISP/CLOCK for more than 2 seconds. "Adj" is displayed.
- Ⓑ Press and hold DISP/CLOCK again for more than 2 seconds. "Adj" blinks indicating the time setting mode is activated.



- © To set hours, press " ^ TUNE".



To set minutes, press "TUNE V":



Hold " $\wedge$ " or " $\vee$ " to change numbers rapidly.

- ⑤ When you have set the time, press DISP/CLOCK.

Resetting the Time

When you want to reset the time, press and hold DISP for more than 2 seconds for **2 times** to activate the time setting mode (for 1 time when the time is displayed). Then, repeat step ㉔ and ㉕.

Selecting the Clock Display

Press and hold DISP/CLOCK for more than 2 seconds to switch the display between each listening mode (Radio, Tape and CD) and the clock.



WARNING

This installation information is designed for experienced installers and is not intended for non-technical individuals. It does not contain warnings or cautions of potential dangers in attempting to install this product.

Any attempt to install this product in a motor vehicle by anyone other than qualified installer could cause damage to the electrical system and could result in serious personal injury or death.

❑ Installation Hardware

CAUTION: This unit will operate with a 12 volt DC negative ground auto battery system only. Do not attempt to use it in any other system. Doing so could cause serious damage.

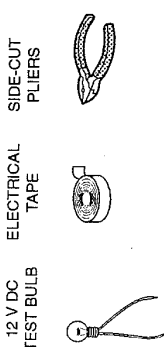
No.	Item	Diagram	Qty
①	Mounting Collar		1
②	Plain Washer (5 mmφ)		2
③	Spring Washer (5 mmφ)		2
④	Hex. Nut (5 mmφ)		2
⑤	Rear Support Strap		1
⑥	Hex. Bolt (5 mmφ x 25 mm)		1
⑦	Toothed Lock Washer (5 mmφ)		1
⑧	Mounting Bolt (5 mmφ)		1
⑨	Power Connector		1
⑩	Unit Case		1

Installation Guide

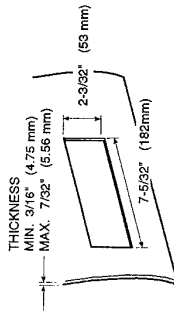
continued

Required Tools

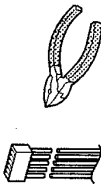
You'll need a screwdriver, a 1.5 volt AA battery, and the following:



Dashboard Specifications



Cut the connector plug off (leaving the leads as long as possible) so that you can work with individual leads.



Turn the ignition on to the accessory position, and ground one lead of the test bulb to the chassis.

Touch the other lead of the test bulb to each of the exposed wires from the cut radio connector plug. Touch one wire at a time until you find the outlet that causes the test bulb to light.

Now turn the ignition off and then on. If the bulb also turns off and on, that outlet is the vehicle power lead.

If your vehicle is not wired for an audio unit : Go to the fuse block and find the fuse port for radio (RADIO), accessory (ACC), or ignition (IGN).

Battery Lead

If your stereo unit has a yellow lead, you will need to locate the car's battery lead. Otherwise you may ignore this procedure. (The yellow battery lead provides continuous power to maintain a clock, memory storage, or other function.)

If your vehicle has a radio or is pre-wired for one: With the ignition and headlights off, identify the car battery lead by grounding one lead of the test bulb to the chassis and checking the remaining exposed wires from the cut radio connector plug.

If your vehicle is not wired for an audio unit : Go to the fuse block and find the fuse port for the battery, usually marked BAT.

Speakers

Identify the car speaker leads. There will be two leads for each speaker, usually color coded.

Speakers

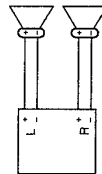
Connect the speaker wires. See the wiring diagram below for the proper hookups. Follow the diagram carefully to avoid damaging the speakers and the stereo unit.

The speaker used must be able to handle more than 25 watts of audio power. If using an optional audio power, the speakers should be able to handle the maximum amplifier output power. Speakers with low input ratings can be damaged.

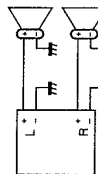
Speaker impedance should measure 4 - 8 ohms, which is typically marked on most speakers. Lower or higher impedance speakers will affect output and can cause both speaker and stereo unit damage.

CAUTION : Never ground the speaker cords. For example, do not use a chassis ground system or a three-wire speaker common system. Each speaker must be connected separately using parallel insulated wires. If in doubt about how your car's speakers are wired, please consult with your nearest professional installer.

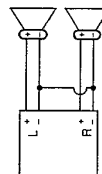
CORRECT
No Common Ground



INCORRECT
Common Chassis Ground



INCORRECT
Speaker Common (common earth lead)



Connect All Leads

Now that you have identified all the wires in the vehicle, you're ready to begin connecting them to the stereo unit wires. The connection diagram on Page 11 shows the proper connections and color coding of the leads.

We strongly recommend that you test the unit before making a final installation.

You can set the unit on the floor and make temporary connections to test the unit. Use electrical tape to cover all exposed wires.

IMPORTANT : Connect the red power lead last, after you have made and insulated all other connections.

Ground

Connect the black ground lead of the power connector to the metal vehicle chassis.

Identify All Leads

The first step in installation is to identify all the vehicle wires you'll use when hooking up your sound system.

As you identify each wire, we suggest that you label it using masking tape and a permanent marker. This will help avoid confusion when making connections later.

Note: Do not connect the power connector to the stereo unit until you have made all connections. If there are no plastic caps on the stereo hooking wires, insulate all exposed leads with electrical tape until you are ready to use them. Identify the leads in the following order.

Power Lead

If your vehicle has a radio or is pre-wired for one :

Installation Guide

continued

Motor Antenna

Connect the vehicle motor antenna lead to the blue motor antenna relay control lead.

Battery

Connect the yellow battery lead to the correct radio wire or to the battery fuse port on the fuse block.

Antenna

Connect the antenna by plugging the antenna lead into the antenna receptacle.

Equipment

Connect any optional equipment such as amplifier, according to the instructions furnished with the equipment. Keep about 12 inches (30 cm) of distance between the speaker cords/amplifier unit and the antenna/antenna extension cord. Read the operating and installation instructions for any equipment you will connect to this unit.

Power

Connect the red power lead to the correct vehicle radio wire or to the appropriate fuse port on the fuse block.

If the stereo unit functions properly with all these connections made, disconnect the wires and proceed to the final installation.

Final Installation

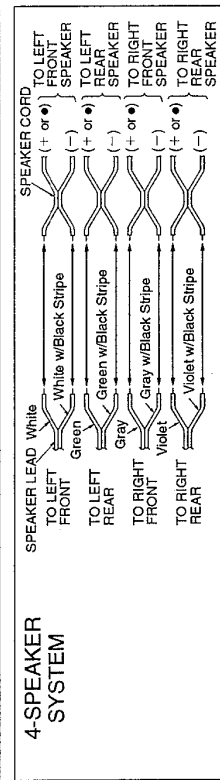
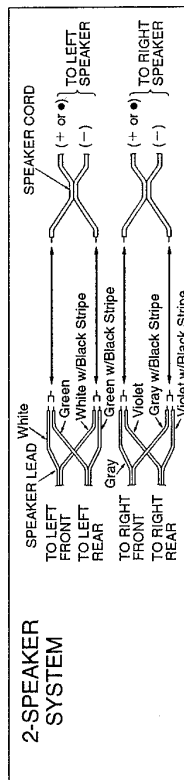
Lead Connections

Connect all wires, making sure that each connection is insulated and secure. Bundle all loose wires and fasten them with tape so they won't fall down later. Now insert the stereo unit into the mounting collar.

Congratulations! After making a few final checks, you're ready to enjoy your new auto stereo system.

Final Checks

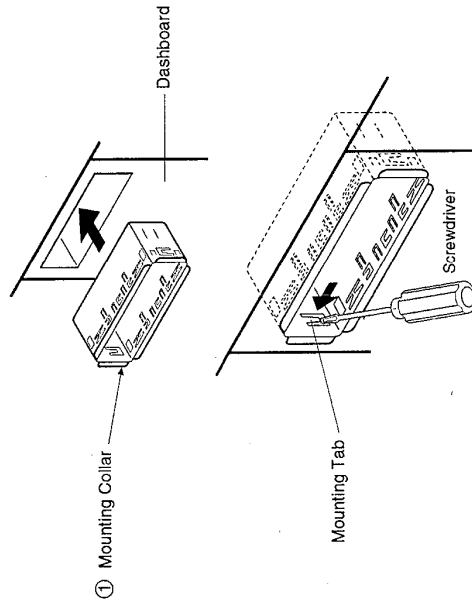
1. Make sure that all wires are properly connected and insulated.
2. Make sure that the stereo unit is securely held in the mounting collar.
3. Turn on the ignition to check the unit for proper operation.



Installation Procedures

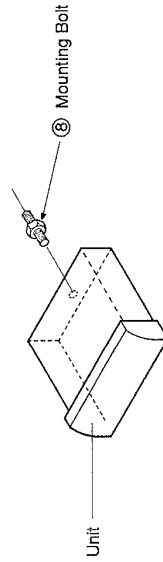
1. Secure the Mounting Collar ①.

Insert Mounting Collar ① into the car's dashboard, and bend mounting tabs out with a screwdriver.

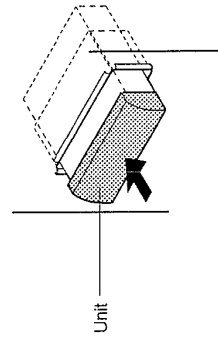


2. Secure the rear of the unit.

- a) Check the electrical connection by referring to this operating instructions.
- b) Connect the Mounting Bolt ⑧, using a suitable wrench.



c) Insert the unit into Mounting Collar ① and push it in until "click" is heard.

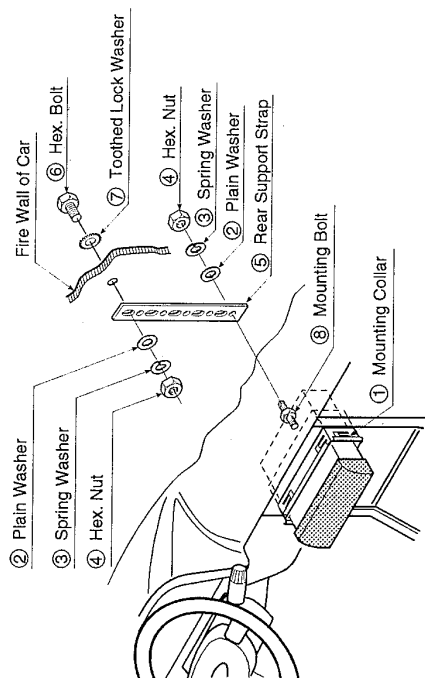


d) Secure the rear of the unit to the car by either of the two recommended methods on the next page.

Installation Guide continued

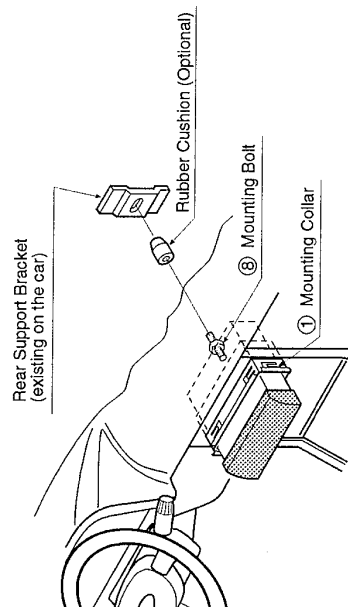
■ Using the Rear Support Strap ⑤

Affix one end of the Rear Support Strap ⑤ to the rear of the unit, and the other end to the Fire Wall of Car, or some other metallic area.

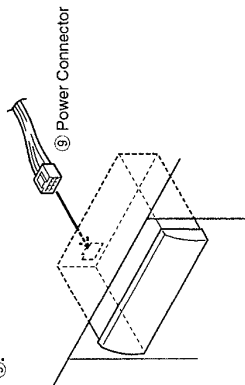


■ Using the Rubber Cushion (Optional)

(If there is an existing Rear Support Bracket on the Fire Wall of Car.) Cover Mounting Bolt ⑧ on the rear of the unit with Rubber Cushion (Optional), and mount it into the existing Rear Support Bracket.



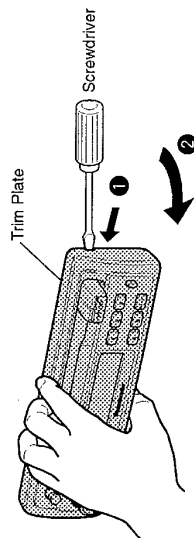
3. Plug the Power Connector ⑨.



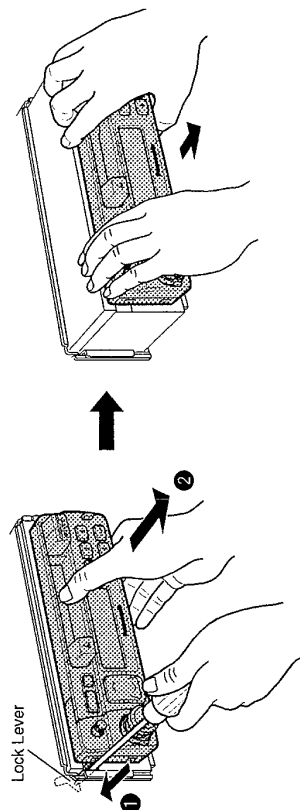
4. After installation reconnect the negative (—) battery terminal.

To Remove the Unit

a) Remove the trim plate with a screwdriver as shown in the figure.



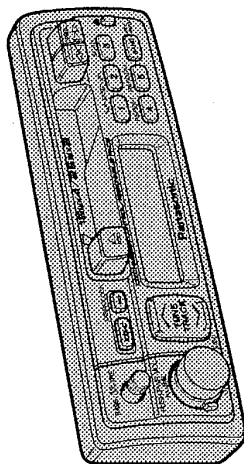
b) Pull out the unit while pushing the lock lever using a screwdriver.
c) Remove the unit pulling with both hands.



Installation Guide continued

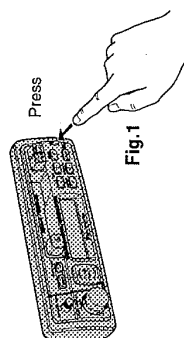
Anti-Theft System

This unit is equipped with a removable face plate. By removing this face plate, the radio becomes totally inoperable. The security indicator will blink.

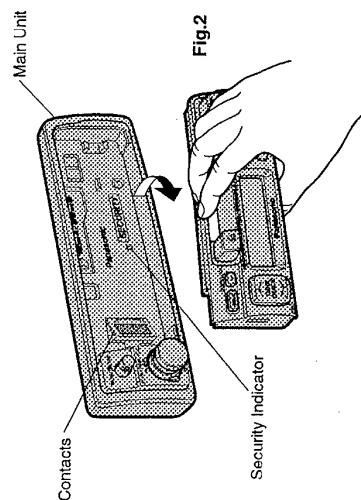


To Remove the Removable Face Plate

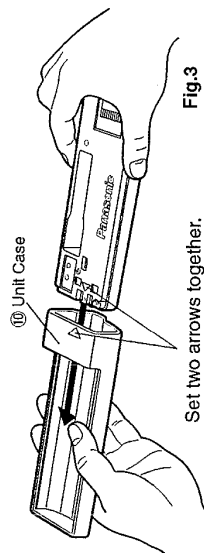
- ① Switch off the power.
- ② Press the release button (▲). The removable face plate will be released.



- ③ Remove the removable face plate by pulling on the right side of the unit. Place the removable face plate in a supplied case.

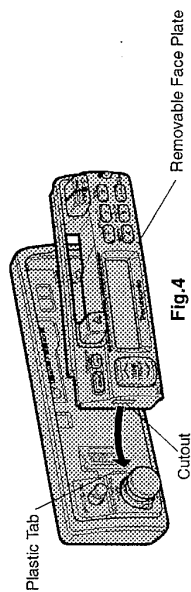


- ④ As shown in Fig.3, insert the removable face plate with the arrow pointing toward the unit case until you hear a "click". Keep the removable face plate in the case. Then, you can bring the plate safely.

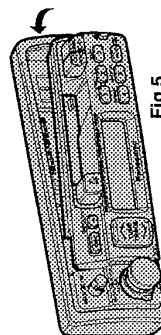


To install the Removable Face Plate

- ① Slide the left side of the removable face plate in place.



- ② Press the right end of removable face plate until it locks in place.



Caution:

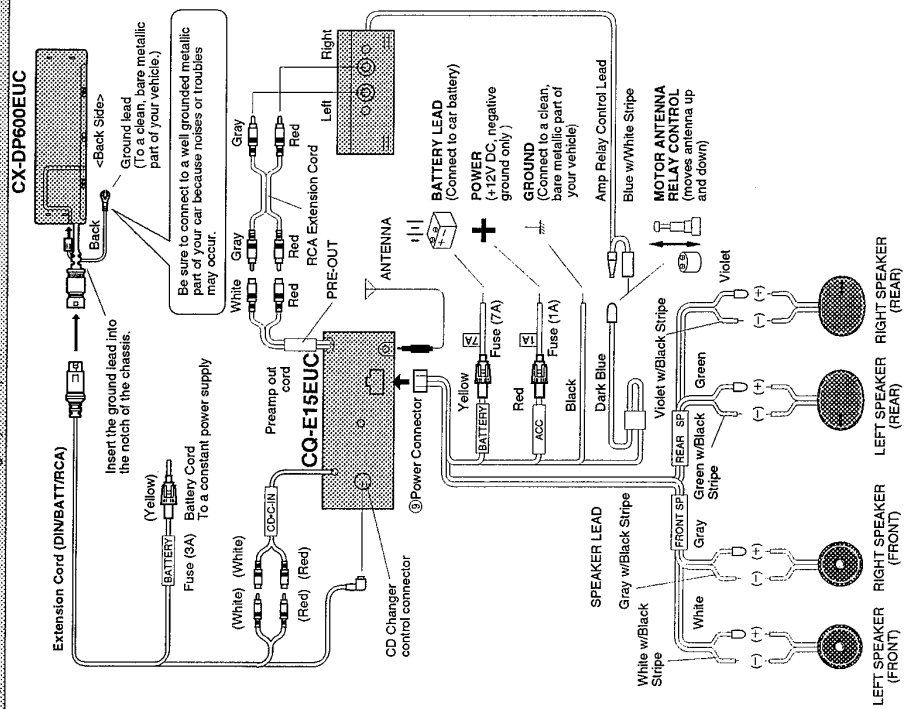
1. Before removing the removable face plate, make sure the power is off.
2. This removable face plate is not water-proof. Do not expose it to water or excessive moisture.
3. Do not remove the removable face plate while driving your car.
4. Do not place the removable face plate on the dashboard or nearby areas where the temperature rises to high levels.
5. Do not touch the contacts on the removable face plate or on the main unit, since this may result in poor electrical contacts.
6. If dirt or other foreign substances get on the contacts, wipe them with a clean, dry cloth.

Installation Guide continued

- This unit can be connected to an optional CD changer (CX-DP600EUC or CX-DP1200EUC). For details consult your nearest Panasonic dealers.
- For connection to a CD changer, refer to the operating instructions of the CD Changer (CX-DP600EUC or CX-DP1200EUC).
- Fader Control does not affect the output of the amplifier connected to this unit's preout cord.

Caution:

- To prevent damage to the unit, be sure to follow the connection diagram below.
- Be sure to connect the ground lead (black) to the car chassis first before connecting the other leads to the speaker terminals of the car.
- Be sure to insulate any exposed wires from a possible short-circuit from the car chassis. Bundle all cables and keep cable terminals free from touching any metal parts.



Troubleshooting

Error Display Messages

E1	Displays when the compact disc is dirty or upside down. Selects the next available compact disc.
E2	Displays when compact disc is scratched. Selects next available compact disc.
E3	Displays when the compact disc stops operating for some reason. Please turn off the car engine (ACC off) and remove the fuse from yellow lead for 1 minute. Then reinstall the fuse.
0000	Displays when there is no disc in the magazine.

Troubleshooting Tips

PROBLEM	POSSIBLE CAUSE	PROBABLE SOLUTION
Unit won't turn on.	Dead vehicle battery. Ignition not on. Bad power line connection. Fuse burned out.	Charge vehicle battery. Turn ignition to On or Accessory. Check connections. Replace fuse.
Radio has static.	Antenna not hooked up. Close to high power lines.	Hook up antenna. Move away from high power lines.
Radio memory buttons don't work.	Not holding buttons down long enough.	Press and hold buttons for more than 2 seconds.
Tape sound quality is poor.	Heads are dirty. Poor quality tape.	Clean heads. (Ask a service representative for advice.) Use better quality tape.
Tape won't change programs.	Not pressing ▶▶(FF) and ◀◀(REW) buttons at the same time.	Press ▶▶(FF) and ◀◀(REW) buttons at the same time.
CD player won't operate.	Unit not properly connected. Unit not switched into CD mode. No CDs in the magazine.	Check connections. Press CD•C button. Check disc magazine.
CD won't play a specific disc.	Disc loaded upside down. Disc damaged. Disc not loaded in magazine.	Reload disc properly. Check disc for scratches, chips. Check disc magazine.

TERMINALS DESCRIPTION

< Main Block >

■ IC601 YEAM78013662

Pin No.	Port	Description	I/O	V _{OL} (V)
1	P1L_CK	P1L clock	O	0
2	P1L_DI	P1L data input	I	0
3	P1L_DO	P1L data output	O	0
4	ST	FM stereo	I	5.6
5	MS	V _{CC} pull-up	—	5.3
6	P1L_CE	P1L chip enable	O	0
7	BEEP	Not used	—	—
8	A/B	Tape side input	I	0
9	GND	Ground	—	0
10 ~ 17	—	No connection	—	—
18	INIT C	Initial setting	I	5.0
19	INIT D	Initial setting	I	5.0
20	INIT E	Initial setting	I	5.0
21 ~ 23	—	(Connecting to ground)	—	0
24	GND	Ground	—	0
25	—	(Connecting to ground)	—	0
26	LED	Security LED	O	0
27	NC	No connection	—	—
28	LCD BLNK	LCD blank	O	0

Pin No.	Port	Description	I/O	Vol. (V)
29	—	No connection	—	—
30	—	No connection	—	—
31	LCD CLK	LCD clock	O	0
32	LCD DATA	LCD data	O	4.9
33	LCD LOAD	LCD data load	O	0
34	REMO	CD changer remote data	O	0
35	RESET	Reset	I	5.0
36	—	(Connecting to ground)	—	0
37	BATT	Battery detection	I	5.3
38	CHGR STB	CD changer strobe	I	0
39	ACC	ACC detection	I	5.3
40	V _{pp}	+5V power supply	—	5.0
41	X2	Crystal oscillator	—	2.5
42	X1	Crystal oscillator	—	2.6
43	—	(Connecting to ground)	—	0
44	NC	No connection	—	—
45	—	(Connecting to ground)	—	0
46	AV GND	Ground	—	0
47	KEY0	Key data input	I	4.8
48	KEY1	Key data input	I	5.0
49	KEY2	Key data input	I	5.0

Pin No.	Port	Description	I/O	Vol. (V)
50	INIT A	Initial setting	I	5.0
51	INIT B	Initial setting	I	0
52	SD	B/S detection	I	0
53	PW CNT	Power supply control	O	5.0
54	MUTE	Mute control	O	5.1
55	AV _{DP}	+ 5V power supply	—	5.1
56	AV _{REF}	+ 5V power supply	—	5.1
57	CHGR DAT	CD changer data	I	0
58	—	No connection	—	—
59	CHGR CLK	CD changer clock	I	0
60	T. LOAD	Tape loading	I	5.2
61	F/R	Tape FF/REW	I	5.0
62	SOL	Not used	—	0
63	—	No connection	—	—
64	—	Ground	—	0

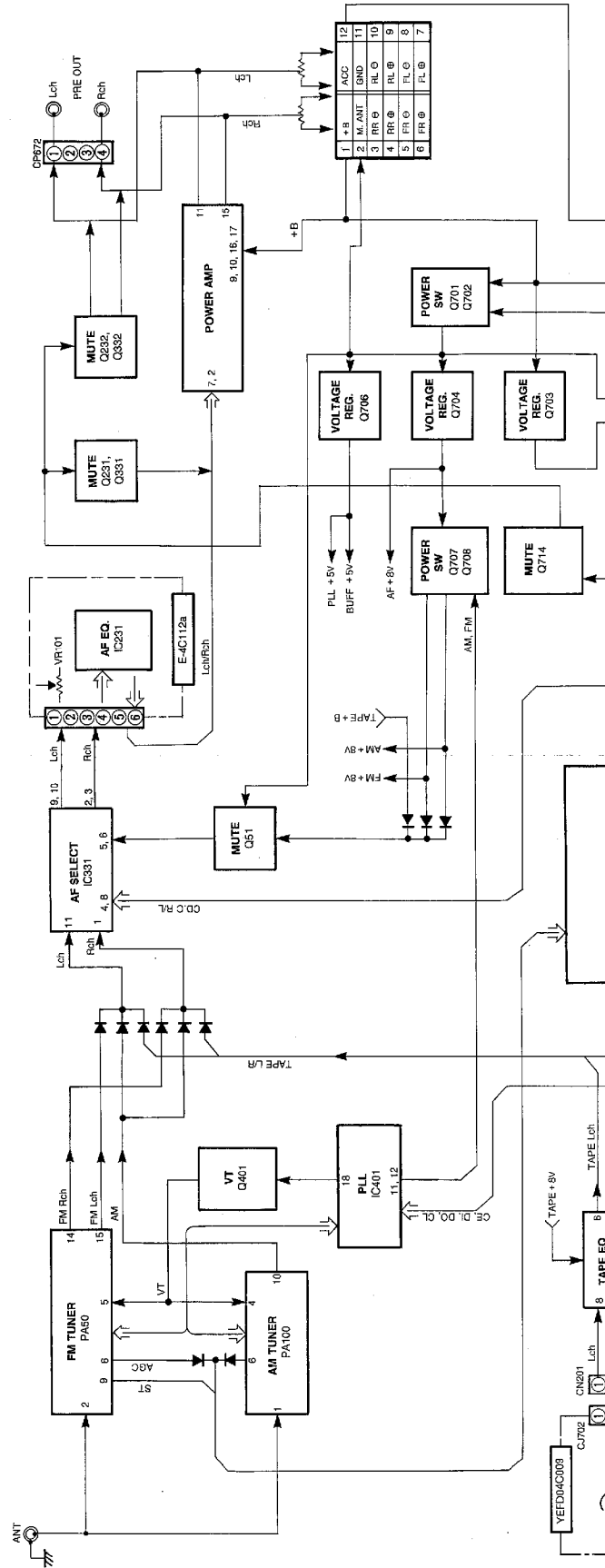
Note 1 :
Voltage measurements are with respect to ground, with a
voltmeter (Internal resistance : 10M ohms.)

< Display Block >

IC901 YEAMSM6544

Pin No.	Port	Desc
1~14	SEG29~42	LCD segment
15	OSC IN	CR oscillator
16	OSC-C	CR oscillator
17	OSC-R	CR oscillator
18	LOAD	LCD data loading
19	DATA	LCD data
20	CLOCK	LCD clock
21	VDD1	+5V power sup
22	BLANK	LCD blank
23	GND	Ground
24	VLCL	LCD drive level
25	COM A	LCD common
26	VLCM	LCD drive level
27	COM B	LCD common
28~56	SEG1~28	LCD segment

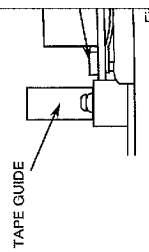
BLOCK DIAGRAM MODEL CQ-E15EUC



1. HEAD HEIGHT ALIGN

Step	Alignment Item	Test Tape
①	Head Height	Tape path viewer (With mirror)

Note : ● Test Tape No. : ● Make sure that the



2. HEAD AZIMUTH ALI

Step	Alignment Item	Test Tape
------	----------------	-----------

■ IC901 YEAMSM6544GS

In No.	Port	Description	I/O	Vol. (V)
14	SEG29~42	LCD segment	O	2.3
15	OSC IN	CR oscillator	—	2.2
16	OSC-C	CR oscillator	—	2.3
17	OSC-R	CR oscillator	—	2.3
18	LOAD	LCD data loading	I	0
19	DATA	LCD data	I	4.6
20	CLOCK	LCD clock	I	0
21	VDD1	+5V power supply	—	4.7
22	BLANK	LCD blank	I	0.7
23	GND	Ground	—	0
24	VLCL	LCD drive level	—	0
25	COM A	LCD common	O	2.3
26	VLCM	LCD drive level	—	2.3
27	COM B	LCD common	O	2.3
28~56	SEG1~28	LCD segment	O	2.3

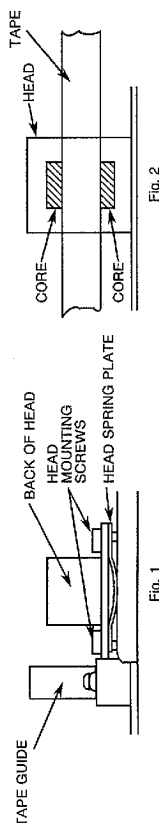
ALIGNMENT INSTRUCTIONS

1. HEAD HEIGHT ALIGNMENT

Step	Alignment Item	Test Tape	Adjust	Remarks
①	Head Height	Tape path viewer (With mirror)	Head Mounting screws (Right and Left)	- Temporarily tighten the Head mounting screws (Right and Left) to the position shown Figure 1. - Insert the Test Tape into the set, and press the play button (Keep power off). - Adjust the height to the Head to be as shown in Figure 2 as viewed in front of the mirror, using the Head mounting screws.

Note :

- Test Tape No. : QZZCRD
- Make sure that the head cores are even top and bottom.



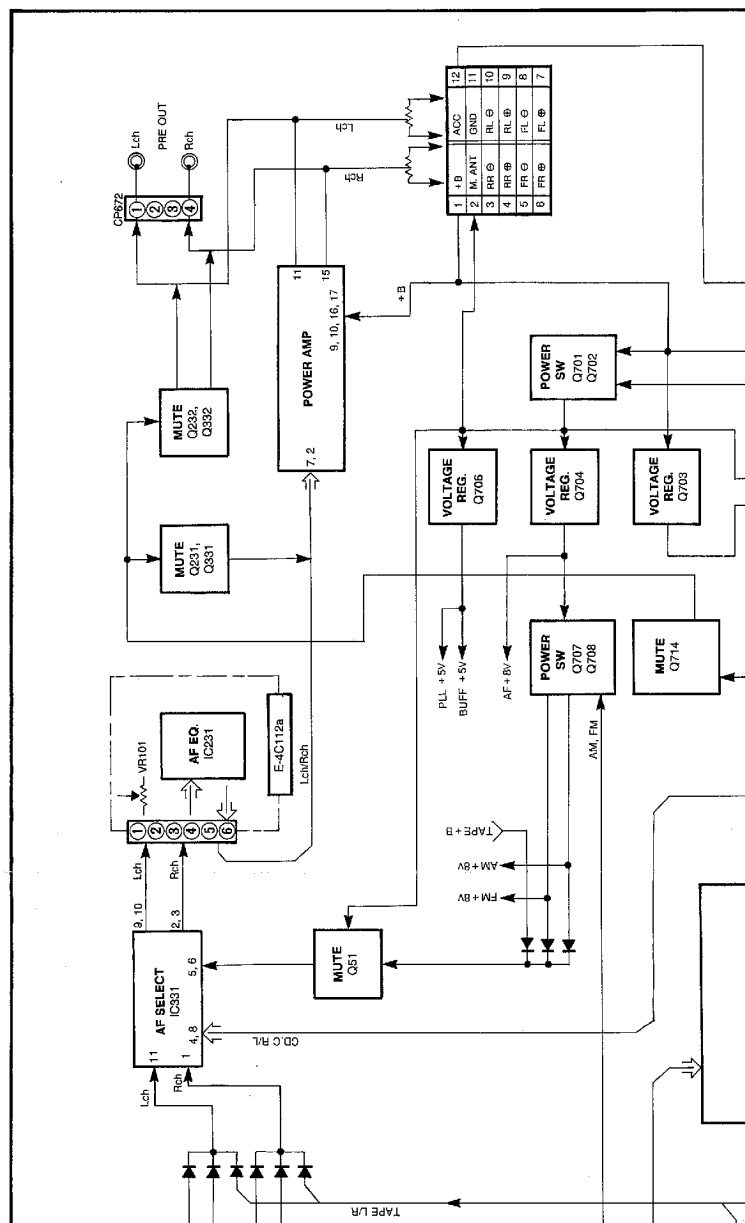
2. HEAD AZIMUTH ALIGNMENT

Step	Alignment Item	Test Tape	Input Terminal	VM Connection	Adjust	Remarks

Pin No.	Port	Description	I/O	Vol. (V)
50	INIT A	Initial setting	I	5.0
51	INIT B	Initial setting	I	0
52	SD	B/S detection	I	0
53	PW CNT	Power supply control	O	5.0
54	MUTE	Mute control	O	5.1
55	AV _{DD}	+5V power supply	—	5.1
56	AV _{REF}	+5V power supply	—	5.1
57	CHGR DAT	CD changer data	I	0
58	—	No connection	—	—
59	CHGR CLK	CD changer clock	I	0
60	T. LOAD	Tape loading	I	5.2
61	F/R	Tape FF/REW	I	5.0
62	SOL	Not used	—	0
63	—	No connection	—	—
64	—	Ground	—	0

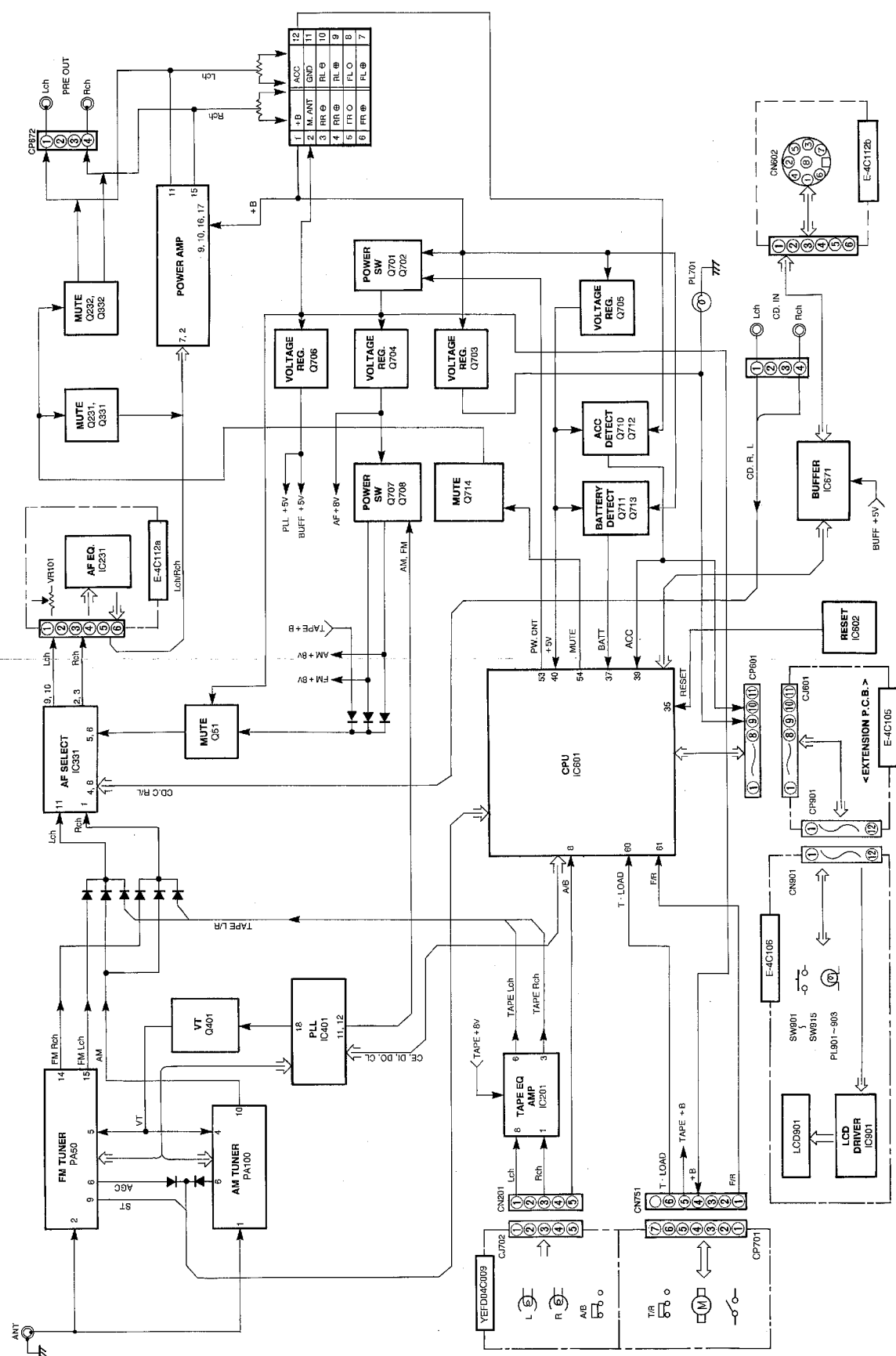
Note 1 :
Voltage measurements are with respect to ground, with a
voltmeter (Internal resistance : 10M ohms.)

Port	Description	I/O	Vol. (V)
	No connection	—	—
	No connection	—	—
CD CLK	LCD clock	O	0
CD DATA	LCD data	O	4.9
CD LOAD	LCD data load	O	0
MEMO	CD changer remote data	O	0
RESET	Reset	I	5.0
	(Connecting to ground)	—	0
BATT	Battery detection	I	5.3
PHGR STB	CD changer strobe	I	0
ACC	ACC detection	I	5.3
DP	+5V power supply	—	5.0
2	Crystal oscillator	—	2.5
1	Crystal oscillator	—	2.6
	(Connecting to ground)	—	0
IC	No connection	—	—
	(Connecting to ground)	—	0
V GND	Ground	—	0
EY0	Key data input	I	4.8
EY1	Key data input	I	5.0
EY2	Key data input	I	5.0



27	NC	No connection	48	KEY1	Key data input	I	5.0
28	LCD BLNK	LCD blank	49	KEY2	Key data input	I	5.0

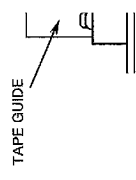
BLOCK DIAGRAM MODEL CQ-E15EUC



1. HEAD HEIG

Step	Alignment Item
①	Head Height

Note : ● Test T
● Make



2. HEAD AZIM

Step	Alignment Item
②	Head Azimuth

Note : If you do nc adjustment. After the ab

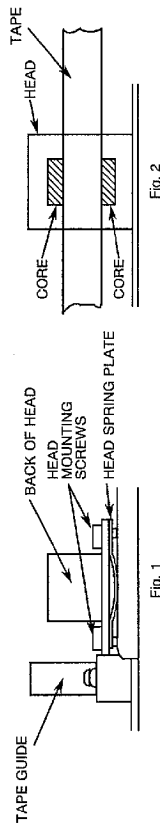
EY1	Key data input	1	5.0
EY2	Key data input	1	5.0

ALIGNMENT INSTRUCTIONS

1. HEAD HEIGHT ALIGNMENT

Step	Alignment Item	Test Tape	Adjust	Remarks
①	Head Height	Tape path viewer (With mirror)	Head Mounting screws (Right and Left)	- Temporarily tighten the Head mounting screws (Right and Left) to the position shown Figure 1. - Insert the Test Tape into the set, and press the play button (Keep power off). - Adjust the height to the Head to be as shown in Figure 2 as viewed in front of the mirror, using the Head mounting screws.

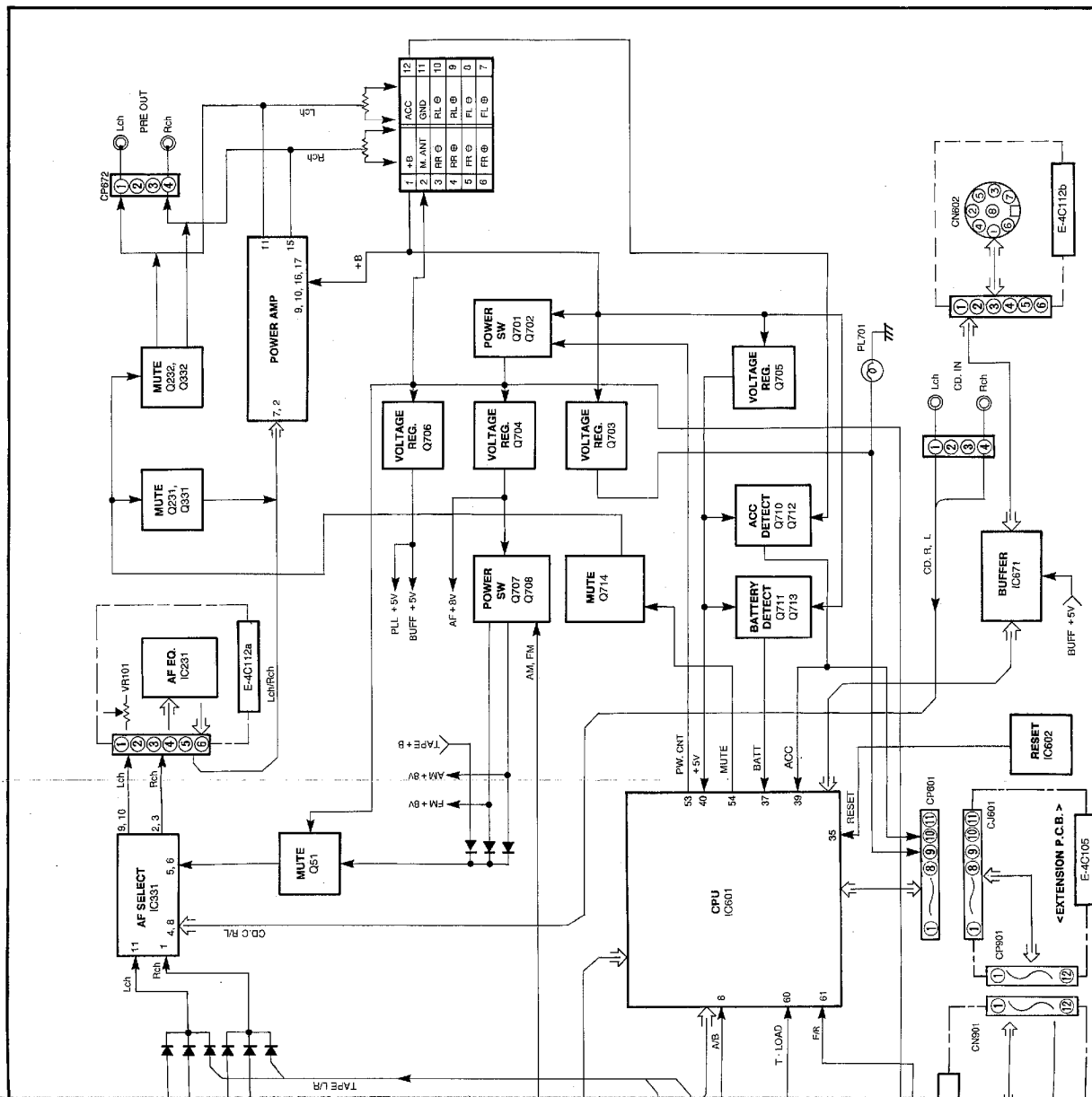
Note : • Test Tape No. : QZZCRD
• Make sure that the head cores are even top and bottom.



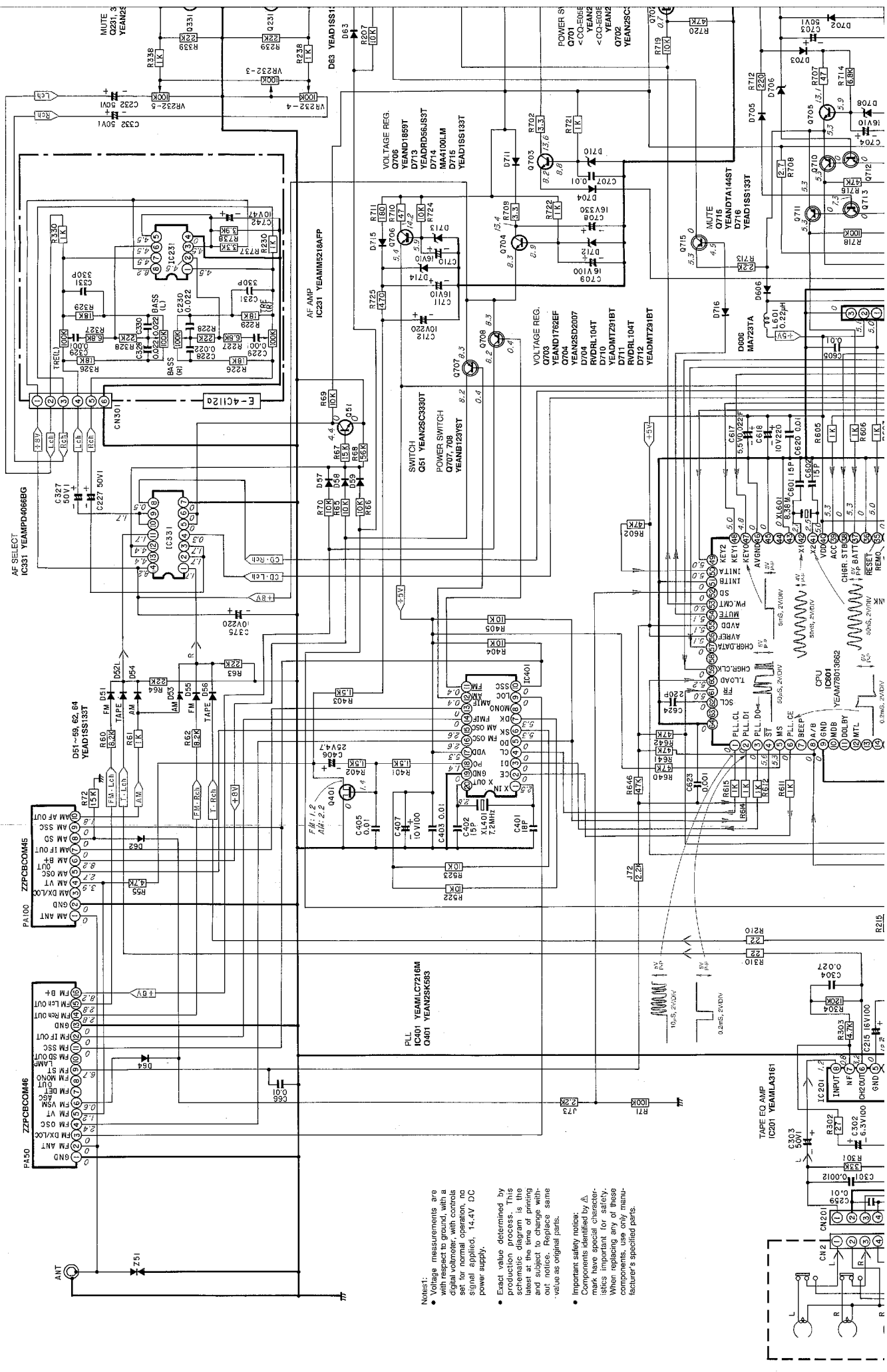
2. HEAD AZIMUTH ALIGNMENT

Step	Alignment Item	Test Tape	Input Terminal	VM Connection	Adjust	Remarks
②	Head Azimuth	TCC-153	Playback Head	Speaker Terminals	Head Azimuth Adjustment Screw	- Adjust for maximum output. - Use ⊕ Screw driver.

Note : If you do not have a test tape, use a tape whose recording level is than 6 kHz for head adjustment.
After the above adjustment apply bonding agent to the adjustment screw.

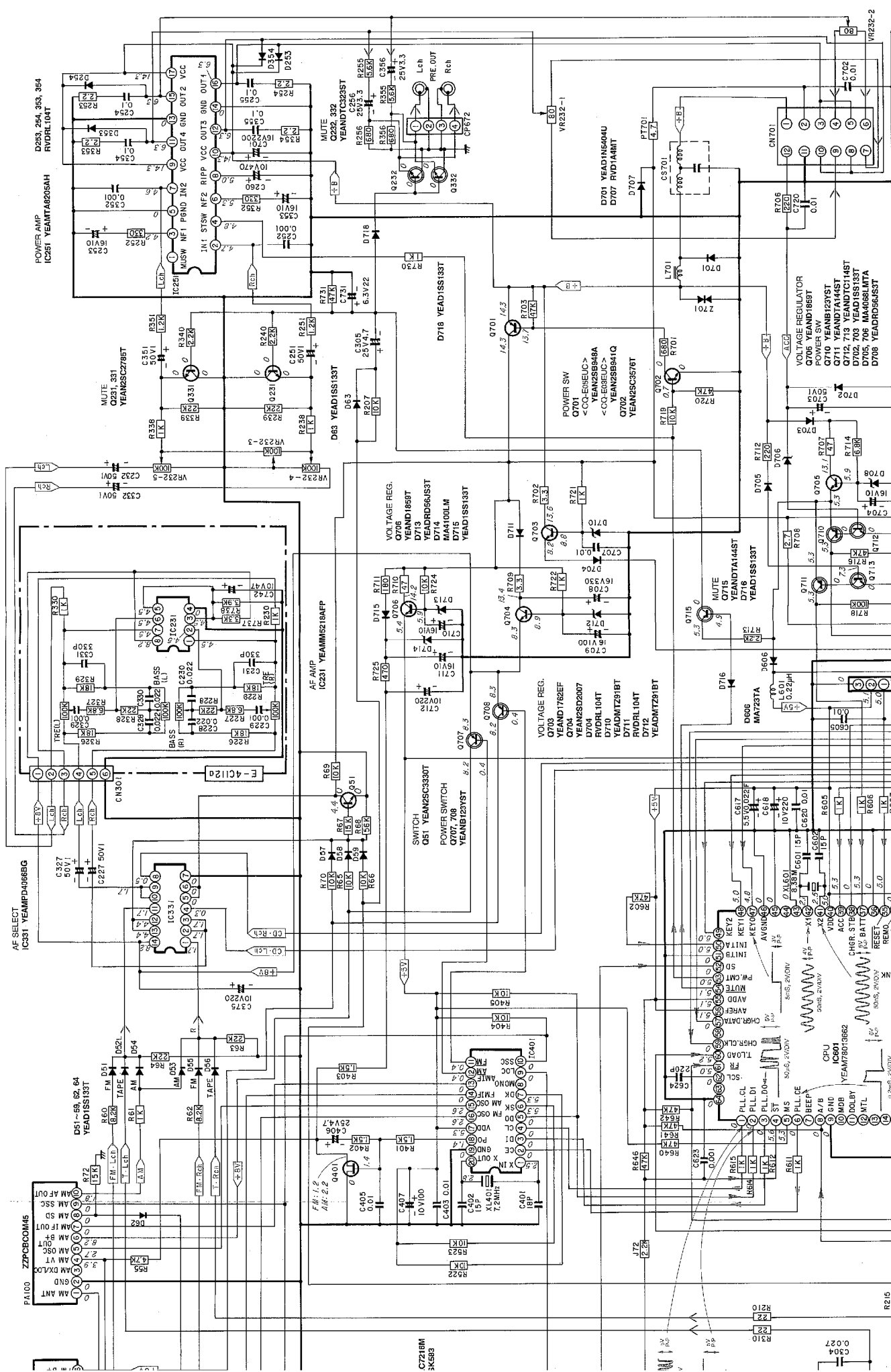


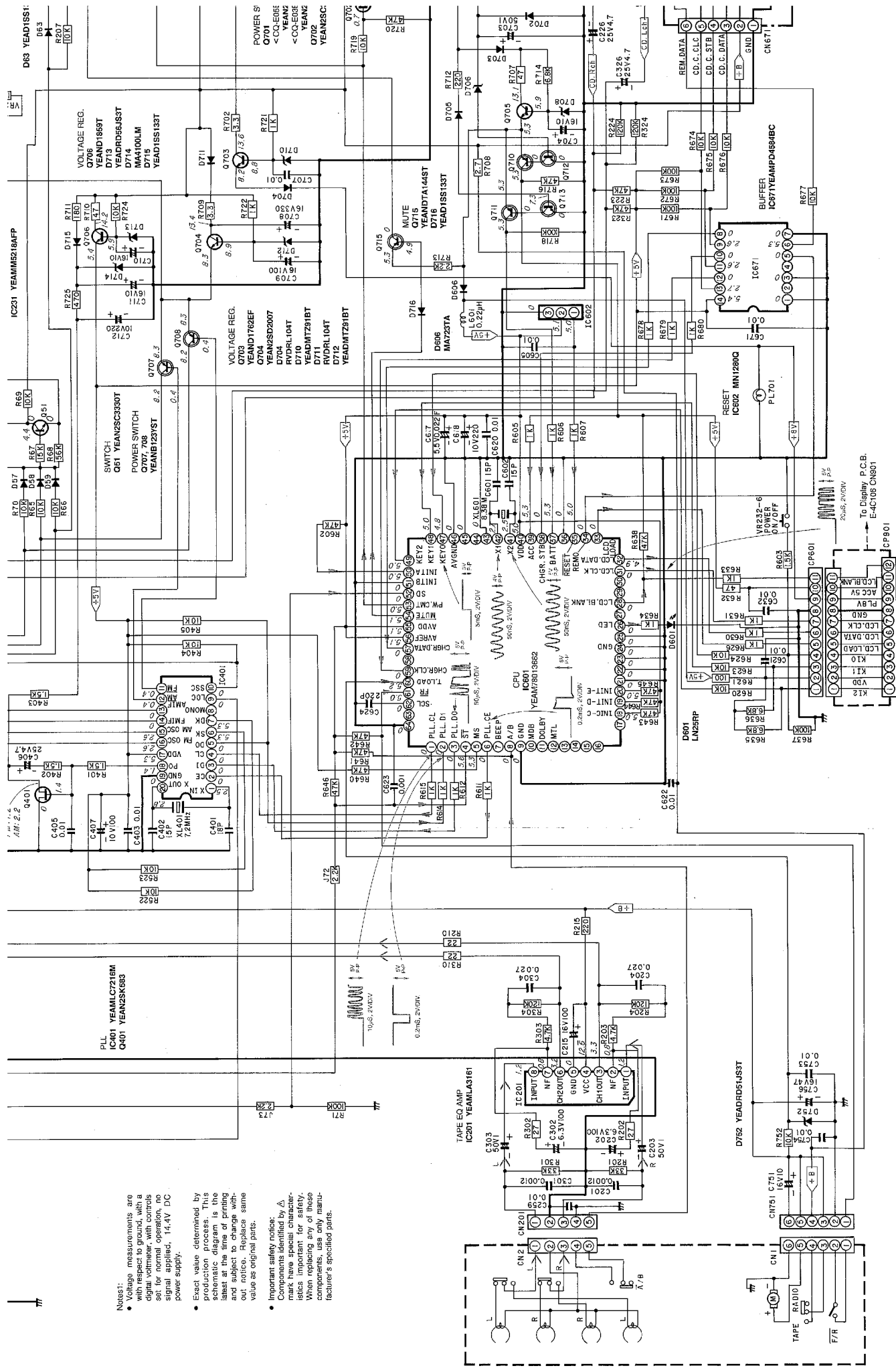
SCHEMATIC DIAGRAM MODEL CQ-E15EUC (Main Block)

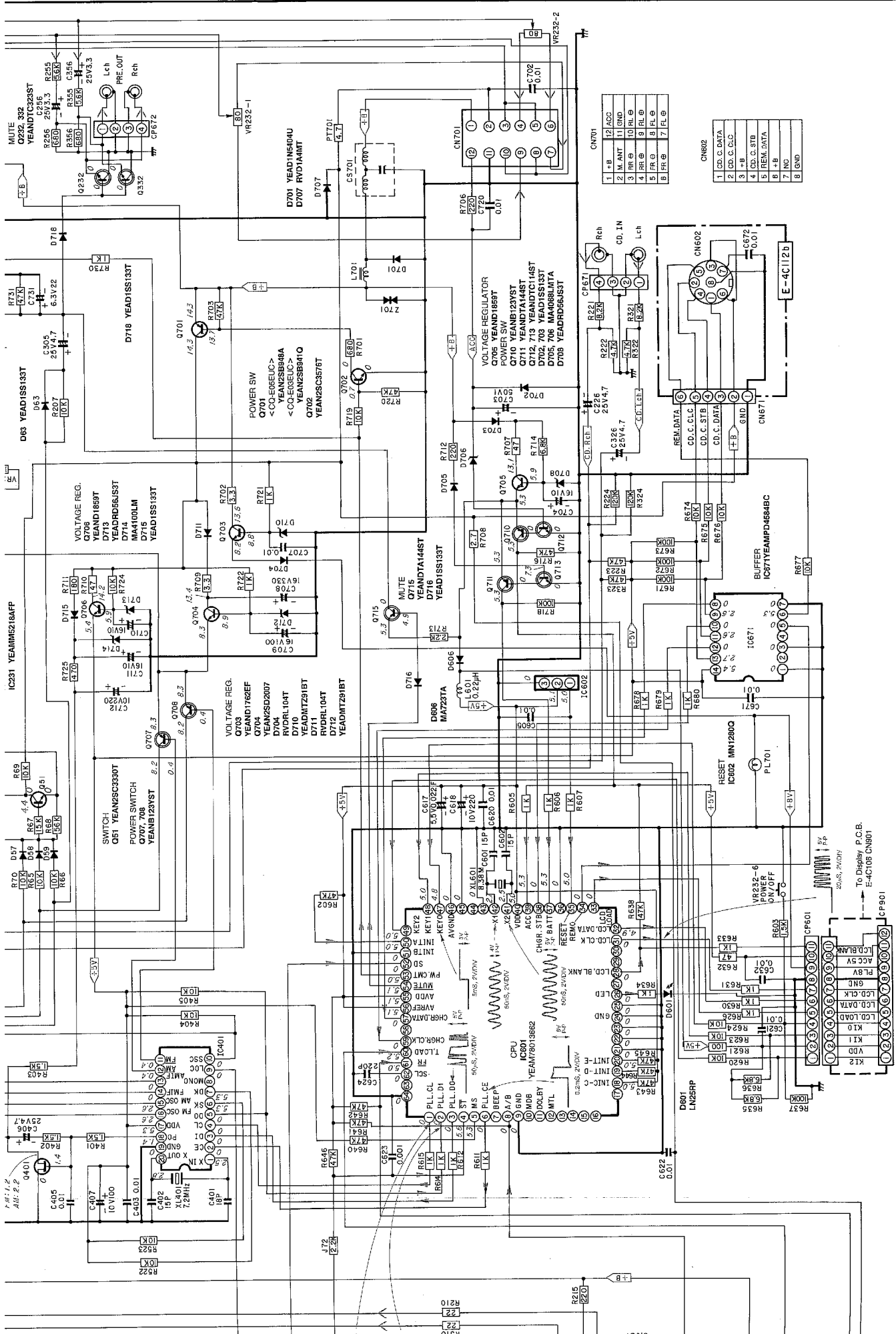


- Notes:
- All measurements are with respect to ground, with a digital voltmeter, with controls set for normal operation, no signal applied, 14.4V DC power supply.
 - Exact value determined by production process. This schematic diagram is the property of the manufacturer and is subject to change without notice. Replace same value as original parts.
 - Important safety notice: Components identified by Δ mark have special characteristics important for safety, reliability, or environmental performance. Use only manufacturer's specified parts.

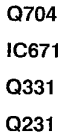
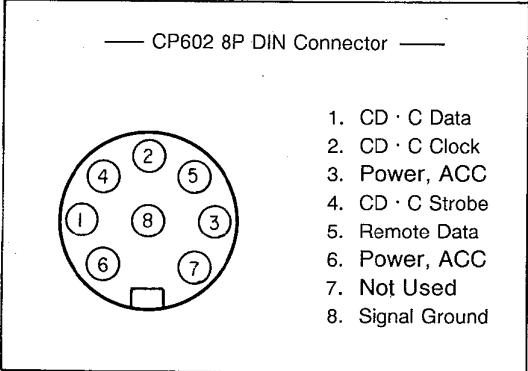
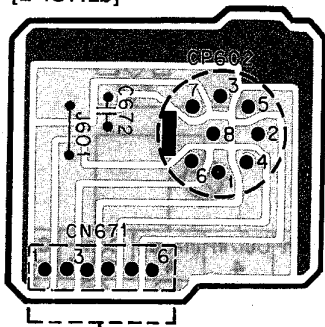
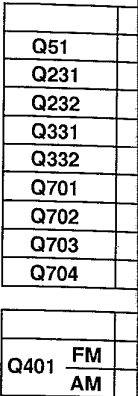
UC (Main Block)







Removable Face High-Power Cassette / Receiver



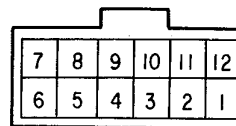
Q401	FM	
	AM	

	B	C	E
Q51	0.8	0	0
Q231	0	0	0
Q232	0	0	0
Q331	0	0	0
Q332	0	0	0
Q701	13.7	14.3	14.3
Q702	0.7	0	0
Q703	8.8	13.6	8.2
Q704	8.9	13.4	8.3

	B	C	E
Q705	5.9	13.1	5.3
Q706	5.9	14.2	5.4
Q707	0.4	8.2	8.3
Q708	0.4	8.2	8.3
Q710	0	5.3	5.3
Q711	0	5.3	5.3
Q712	7.5	0	0
Q713	7.3	0	0
Q715	4.9	0	5.3

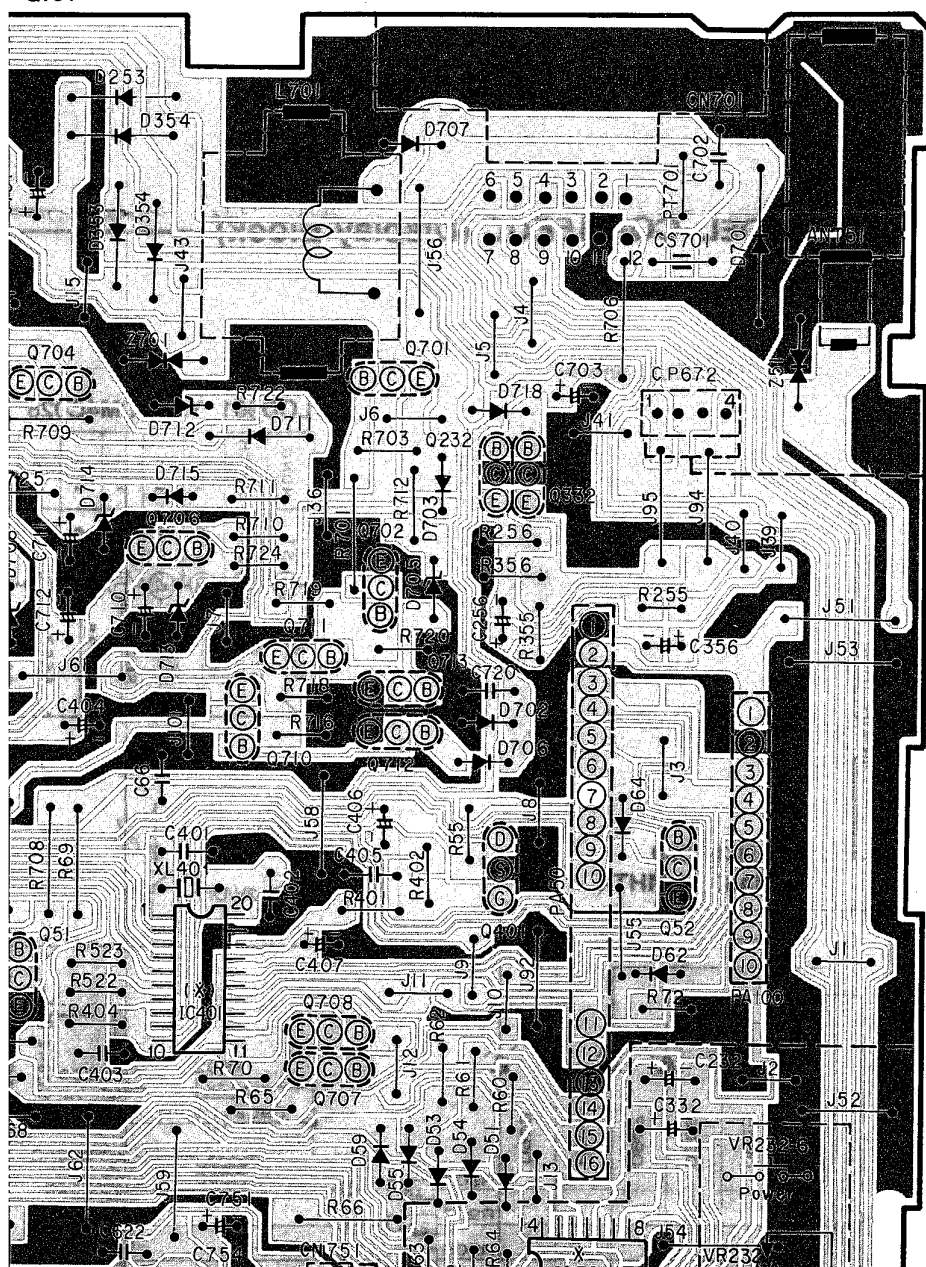
	G	D	S
Q401 FM	1.4	1.1	0
Q401 AM	1.4	2.2	0

— CN701 12P Connector —



1. Power Supply, BATT ⊕
2. Motor Antenna
3. Rear Speaker, Right ⊖
4. Rear Speaker, Right ⊕
5. Front Speaker, Right ⊖
6. Front Speaker, Right ⊕
7. Front Speaker, Left ⊕
8. Front Speaker, Left ⊖
9. Rear Speaker, Left ⊕
10. Rear Speaker, Left ⊖
11. Ground
12. Power Supply, ACC ⊕

Q704



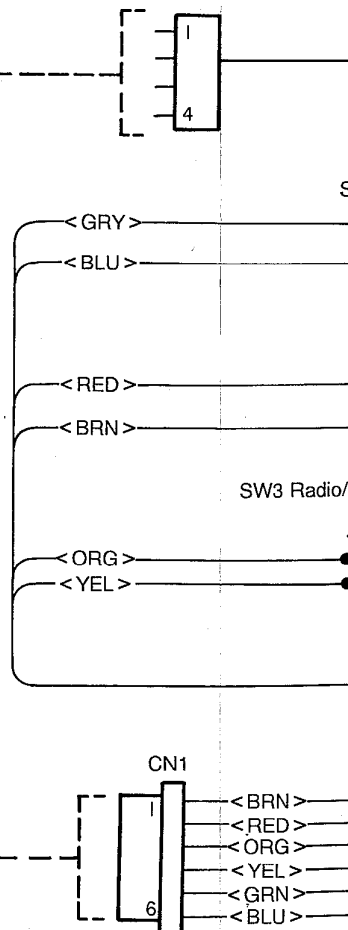
Note :

Marked (※) parts are the chip parts on the soldering side.

Q701
Q332
Q232

Q715
Q702
Q706
Q705
Q711
Q713
Q710
Q712
PA50
PA100
Q401

Q51
IC401
Q708
Q707

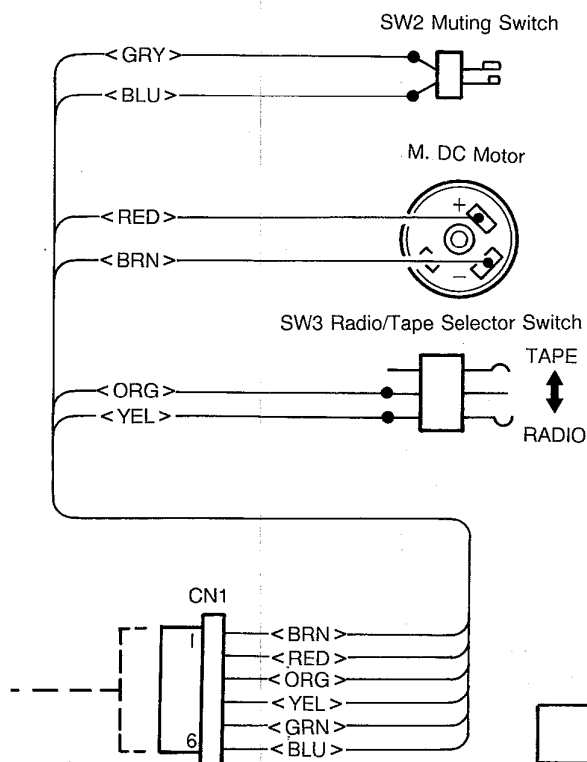
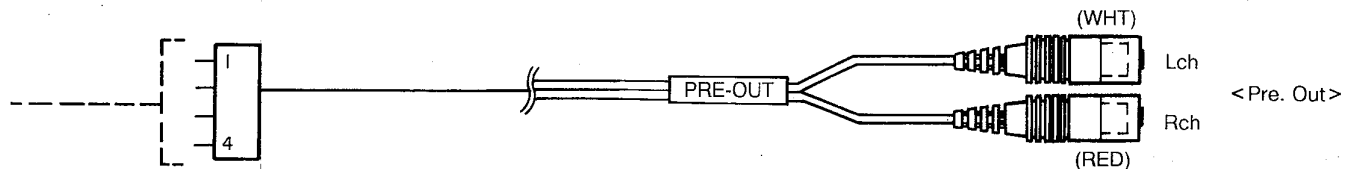
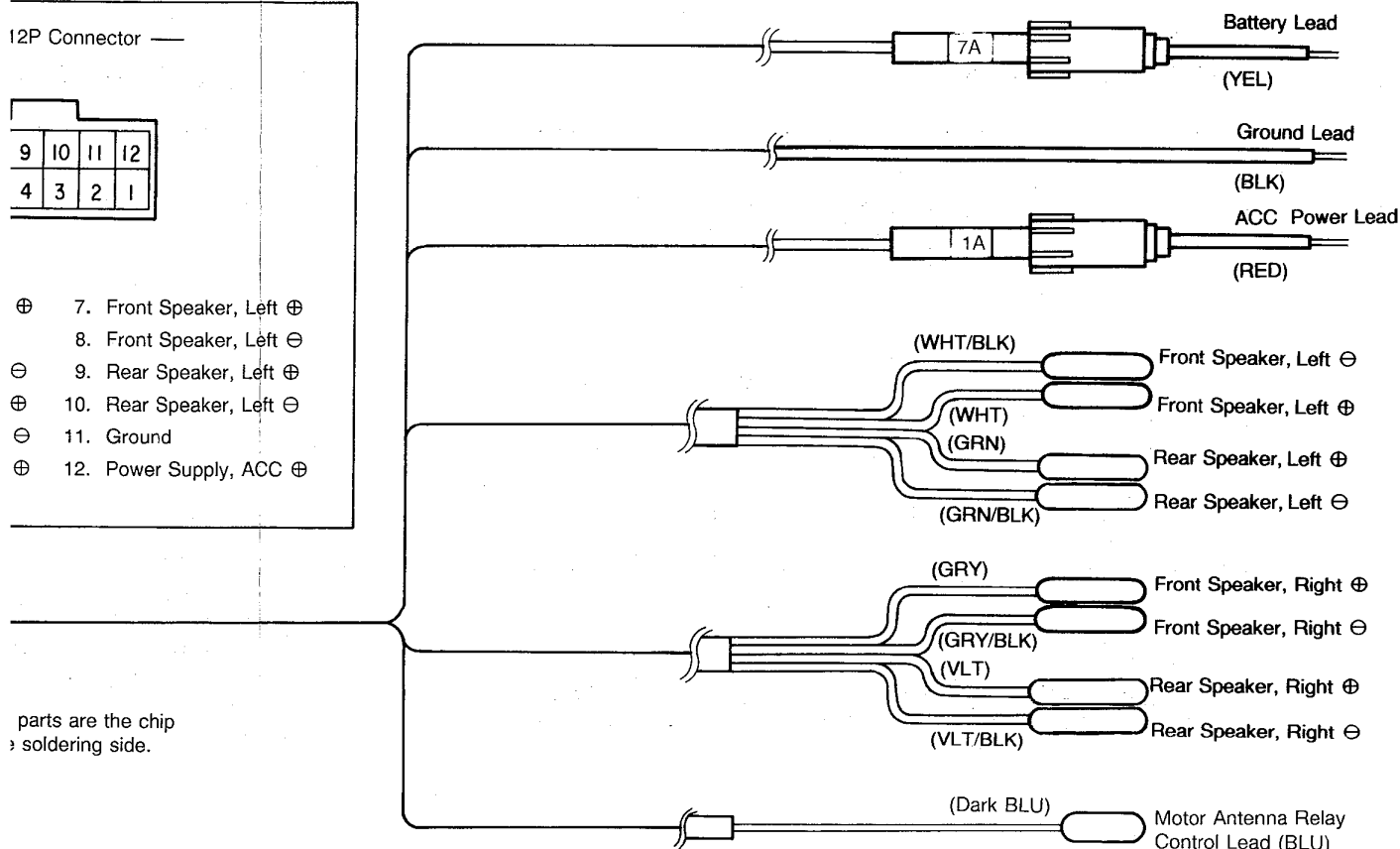


12P Connector —

9	10	11	12
4	3	2	1

- ⊕ 7. Front Speaker, Left ⊕
- ⊖ 8. Front Speaker, Left ⊖
- ⊖ 9. Rear Speaker, Left ⊕
- ⊕ 10. Rear Speaker, Left ⊖
- ⊖ 11. Ground
- ⊕ 12. Power Supply, ACC ⊕

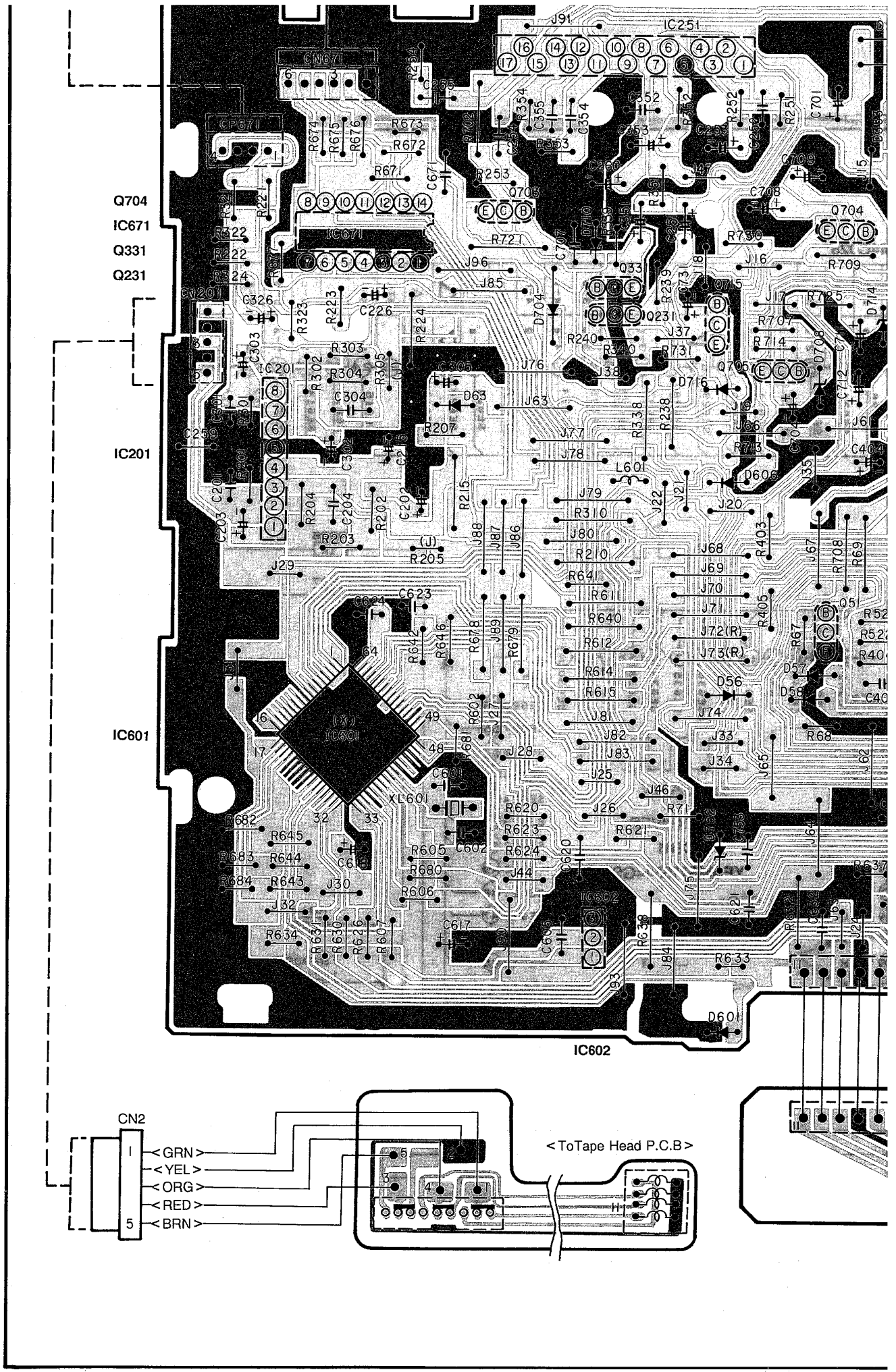
parts are the chip
soldering side.



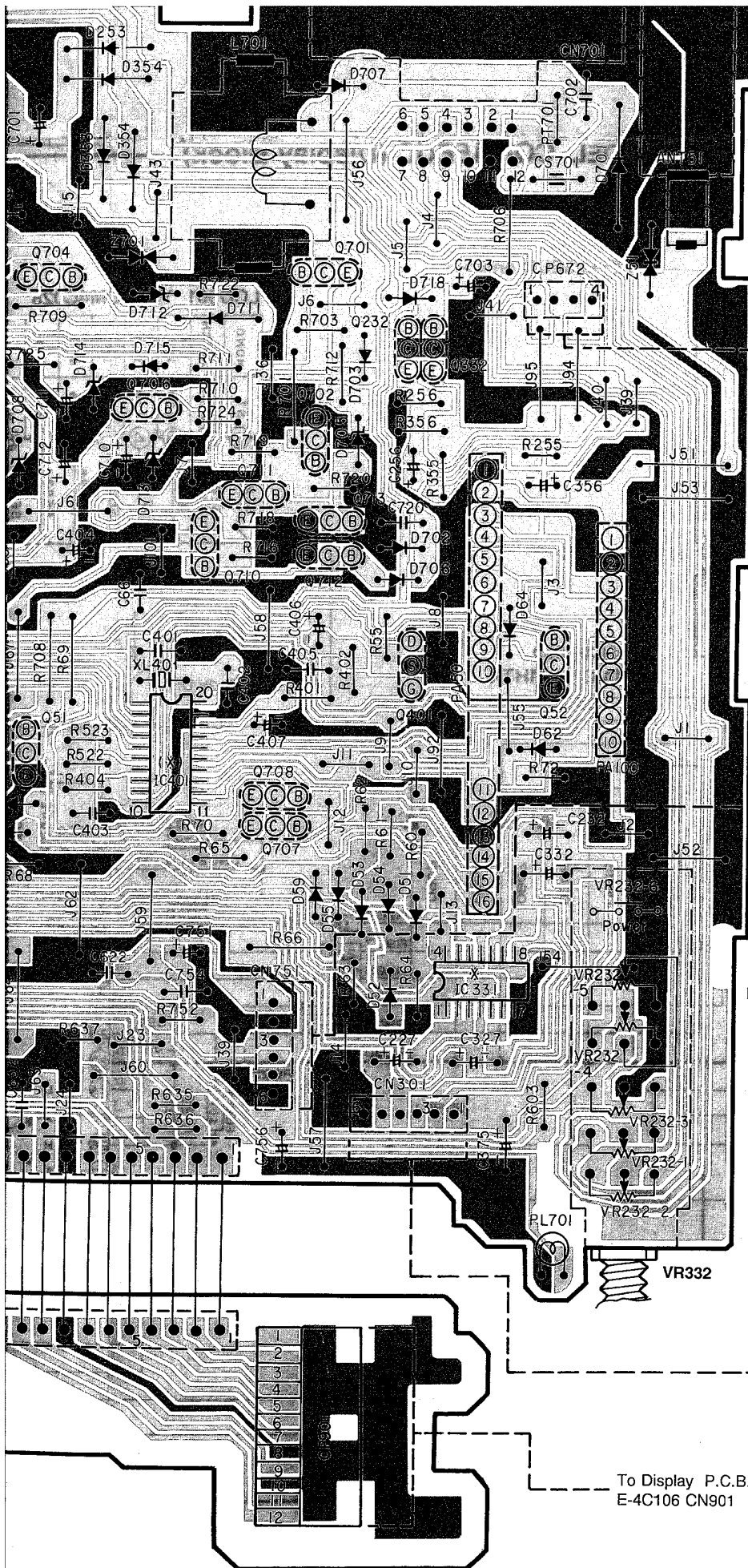
Pin	IC201	IC231	IC251	IC331	IC401	IC602	IC671	PA50	PA100
1	1.2	4.5	—	1.7	2.5	5.0	0	0	0
2	0.8	4.5	4.7	1.7	0	5.1	—	0	0
3	3.3	4.5	4.2	1.7	0	0	0	0	—
4	12.6	0	4.8	0.3	0	—	—	2.4	3.9
5	0	4.5	0	0	0	—	0	1.2	2.7
6	3.2	4.5	5.3	0	5.3	—	5.3	0.6	8.2
7	0.8	4.5	4.6	0	5.3	—	0	—	0
8	1.2	8.2	5.0	0.5	—	—	0	—	0
9	—	—	14.3	1.7	0	—	2.6	6.7	0
10	—	—	14.3	1.7	0	—	0	—	1.8
11	—	—	6.3	1.7	0.4	—	2.6	0	—
12	—	—	6.3	4.4	0.4	—	0	0	—
13	—	—	0	4.4	0	—	2.7	0	—
14	—	—	0	8.2	0	—	5.4	2.8	—
15	—	—	6.3	—	2.6	—	—	2.8	—
16	—	—	6.3	—	2.6	—	—	2.8	—
17	—	—	14.3	—	5.3	—	—	—	—
18	—	—	—	—	1.4	—	—	—	—
19	—	—	—	—	0	—	—	—	—
20	—	—	—	—	2.8	—	—	—	—

ICs & Transistors





Marked (*) parts are the chip parts on the soldering side.



Q701
Q332
Q232

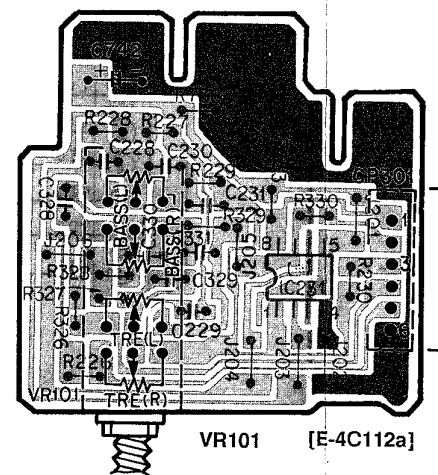
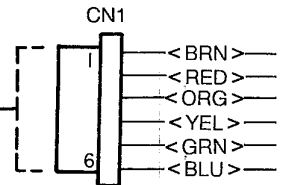
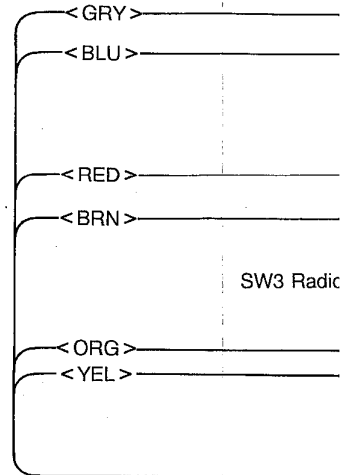
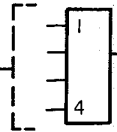
Q715
Q702
Q706
Q705
Q711
Q713
Q710
Q712
PA50
PA100
Q401

Q51
IC401
Q708
Q707

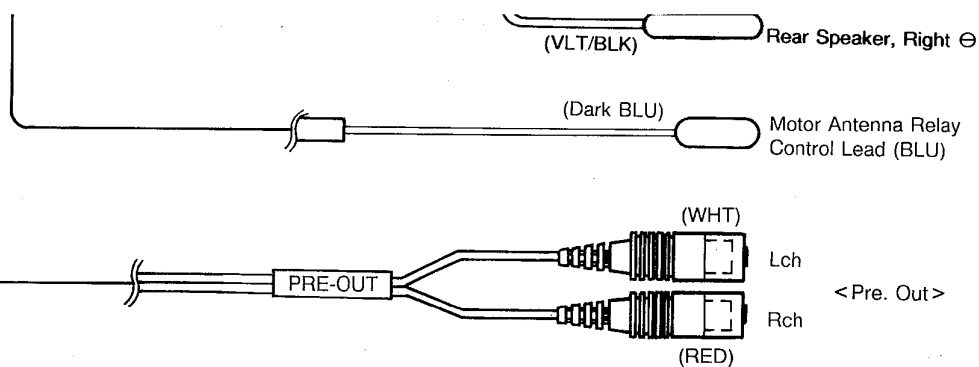
IC331

VR332

To Display P.C.B.
E-4C106 CN901



parts are the chip
the soldering side.



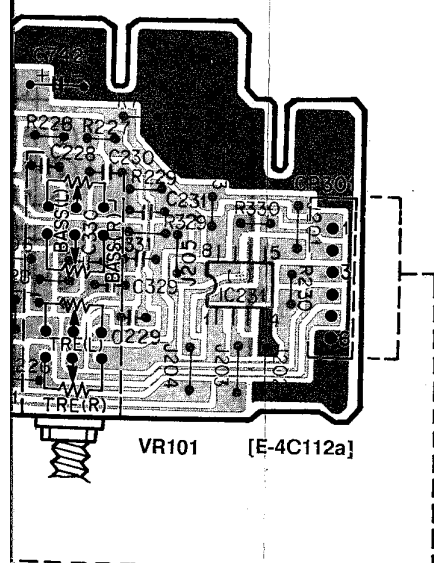
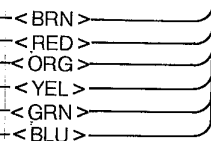
SW2 Muting Switch

M. DC Motor

SW3 Radio/Tape Selector Switch
TAPES
RADIO

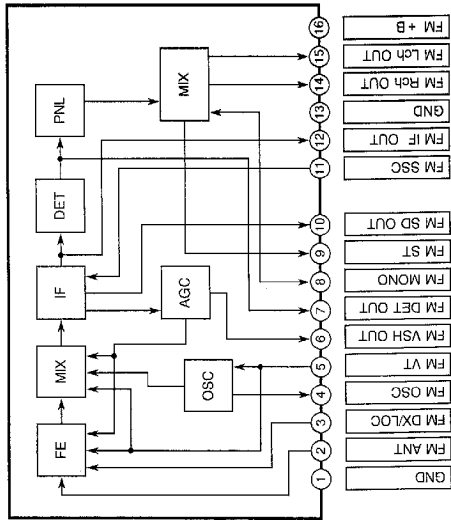
Pin	IC201	IC231	IC251	IC331	IC401	IC602	IC671	PA50	PA100
1	1.2	4.5	—	1.7	2.5	5.0	0	0	0
2	0.8	4.5	4.7	1.7	0	5.1	—	0	0
3	3.3	4.5	4.2	1.7	0	0	0	0	—
4	12.6	0	4.8	0.3	0	—	—	2.4	3.9
5	0	4.5	0	0	0	—	0	1.2	2.7
6	3.2	4.5	5.3	0	5.3	—	5.3	0.6	8.2
7	0.8	4.5	4.6	0	5.3	—	0	—	0
8	1.2	8.2	5.0	0.5	—	—	0	—	0
9	—	—	14.3	1.7	0	—	2.6	6.7	0
10	—	—	14.3	1.7	0	—	0	—	1.8
11	—	—	6.3	1.7	0.4	—	2.6	0	—
12	—	—	6.3	4.4	0.4	—	0	0	—
13	—	—	0	4.4	0	—	2.7	0	—
14	—	—	0	8.2	0	—	5.4	2.8	—
15	—	—	6.3	—	2.6	—	—	2.8	—
16	—	—	6.3	—	2.6	—	—	2.8	—
17	—	—	14.3	—	5.3	—	—	—	—
18	—	—	—	—	1.4	—	—	—	—
19	—	—	—	—	0	—	—	—	—
20	—	—	—	—	2.8	—	—	—	—

CN1

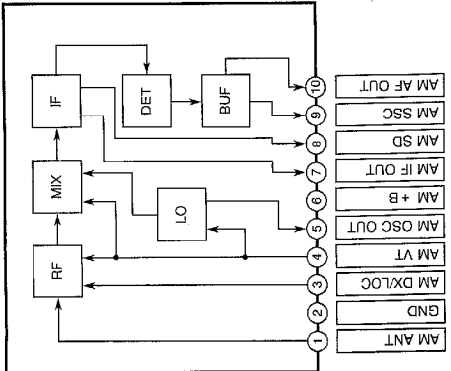


PACKAGE AND IC BLOCK DIAGRAM

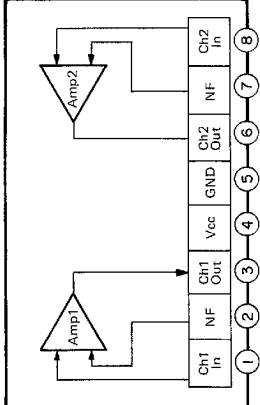
• PA50 ZZPCBCOM46



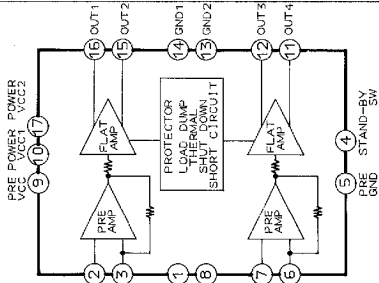
• PA100 ZZPCBCOM45



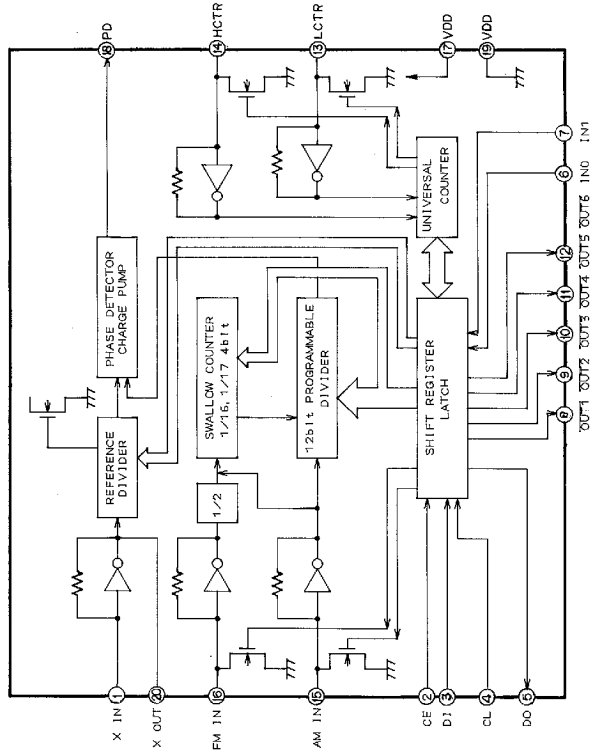
• IC201 YEAMLA3161



• IC251 YEAMTA8205AH



• IC401 YEAMLC7216M

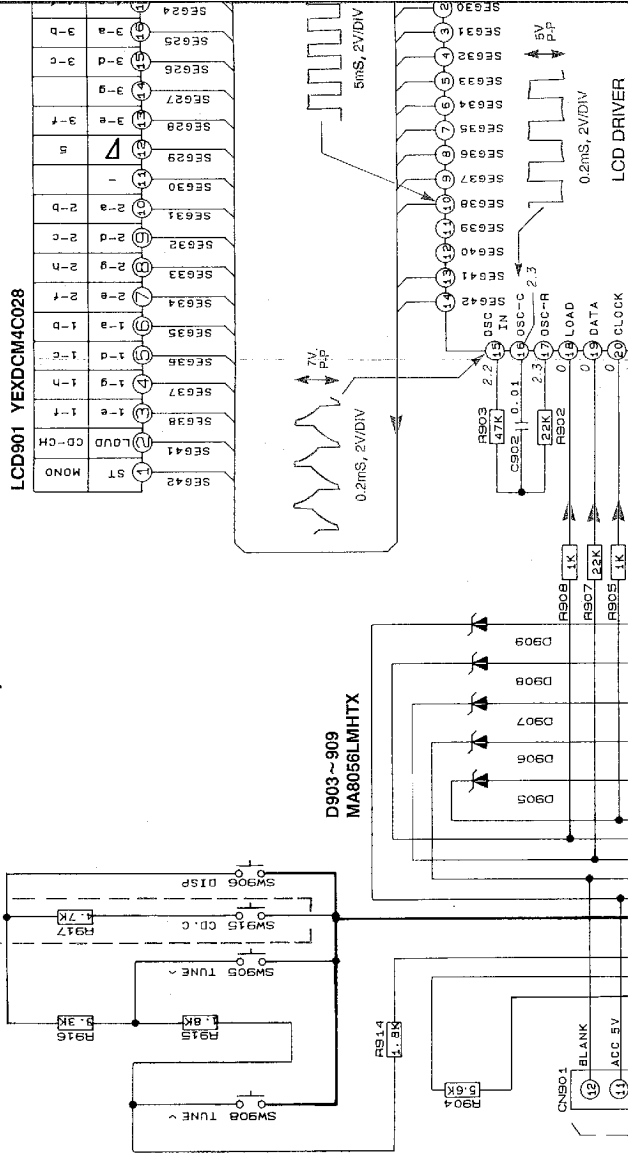


• IC602 MN1280Q

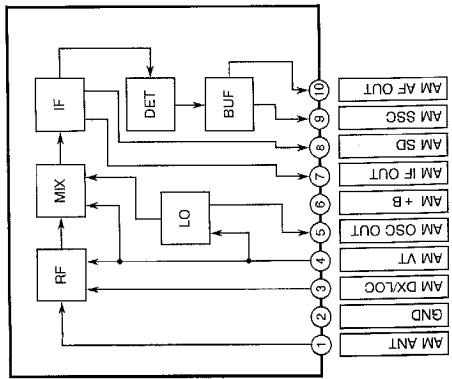
• IC671 YEAMPD4584BC

SCHEMATIC DIAGRAM MODEL CQ-E15EUC (Display Block)

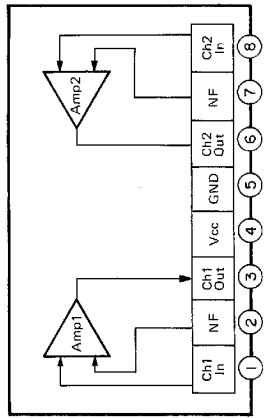
<CQ-E05EUC only >



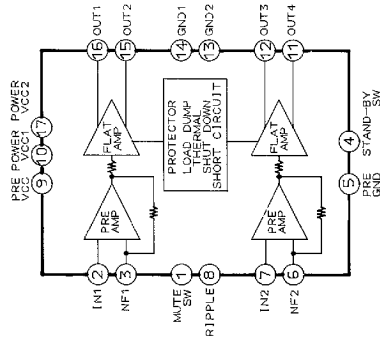
● PA100 ZZPCBCOM45



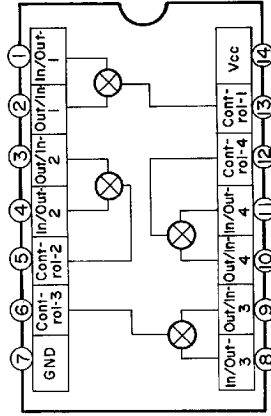
● IC201 YEAMLA3161



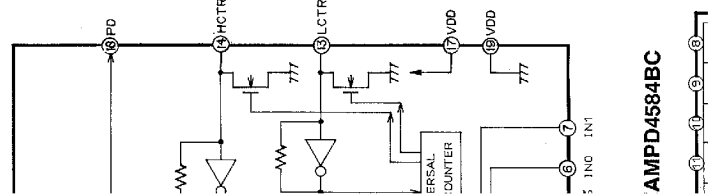
● IC251 YEAMTA8205AH



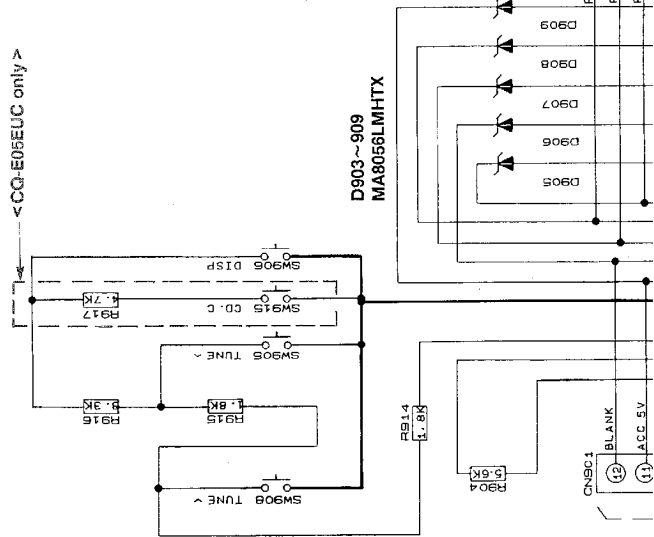
● IC331 YEAMPD4066BG



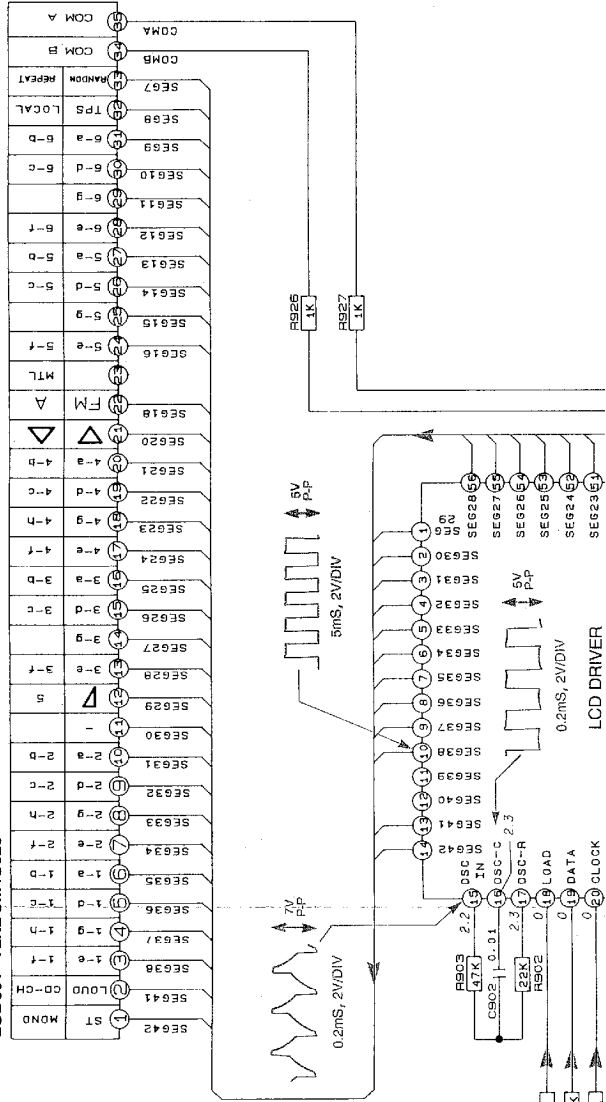
SCHEMATIC DIAGRAM MODEL CQ-E15EUC (Display Block)



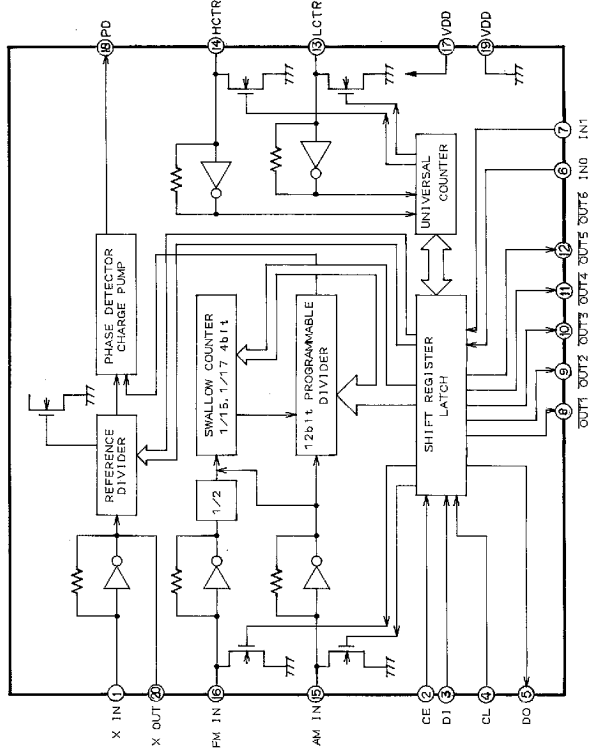
<CQ-E05EUC only >



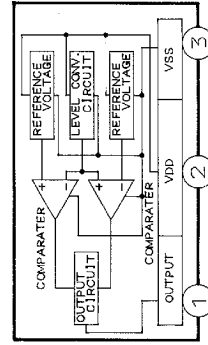
LCD901 YEXDCM4C028



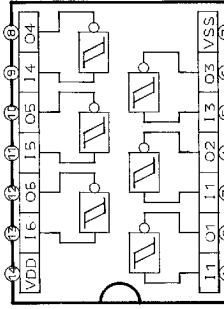
• IC401 YEAMLC7216M



• IC602 MN1280Q

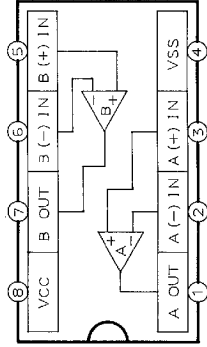


• IC671 YEAMPD4584BC



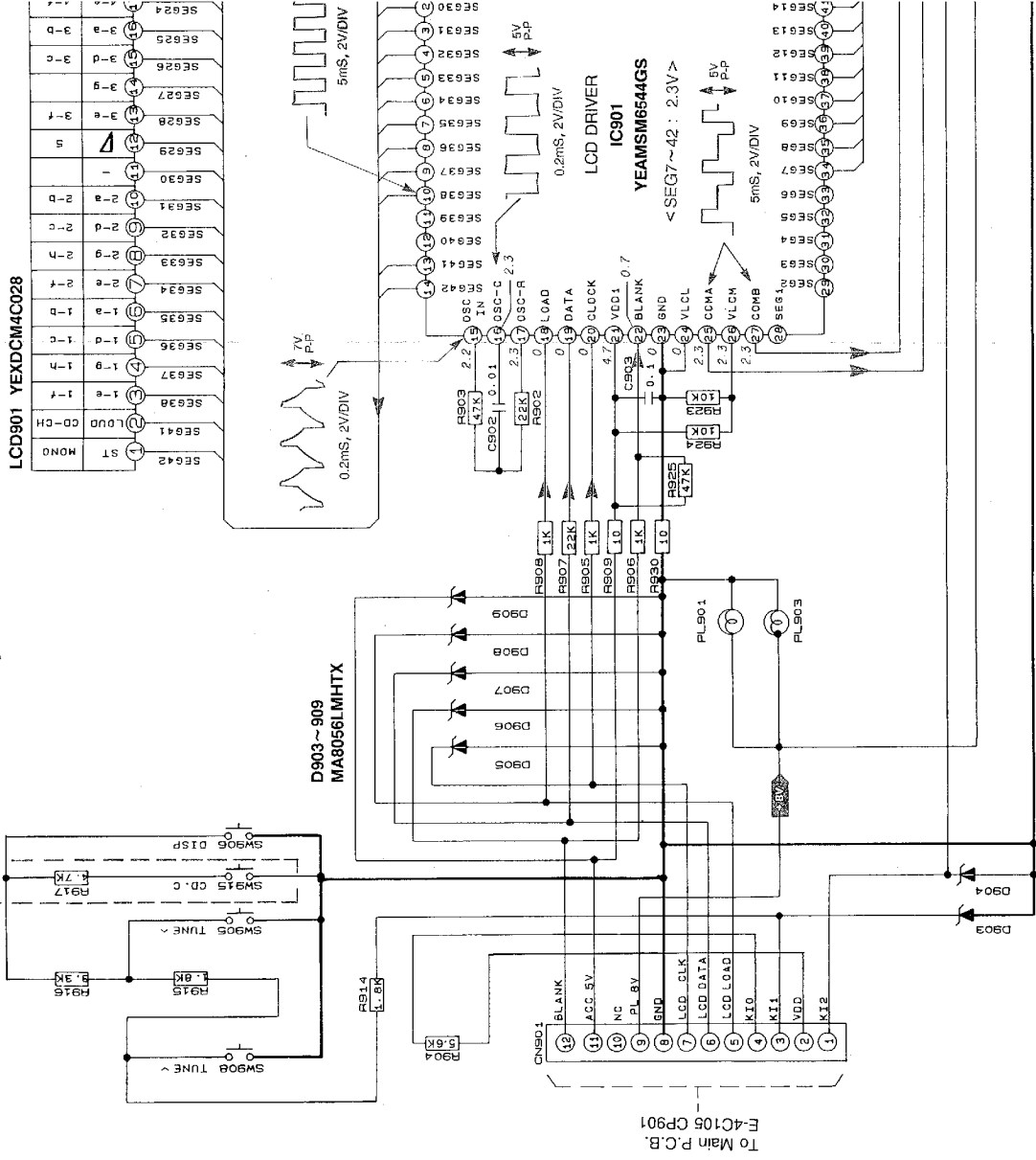
<Display Block>

• IC231 YEAMM5218AFP

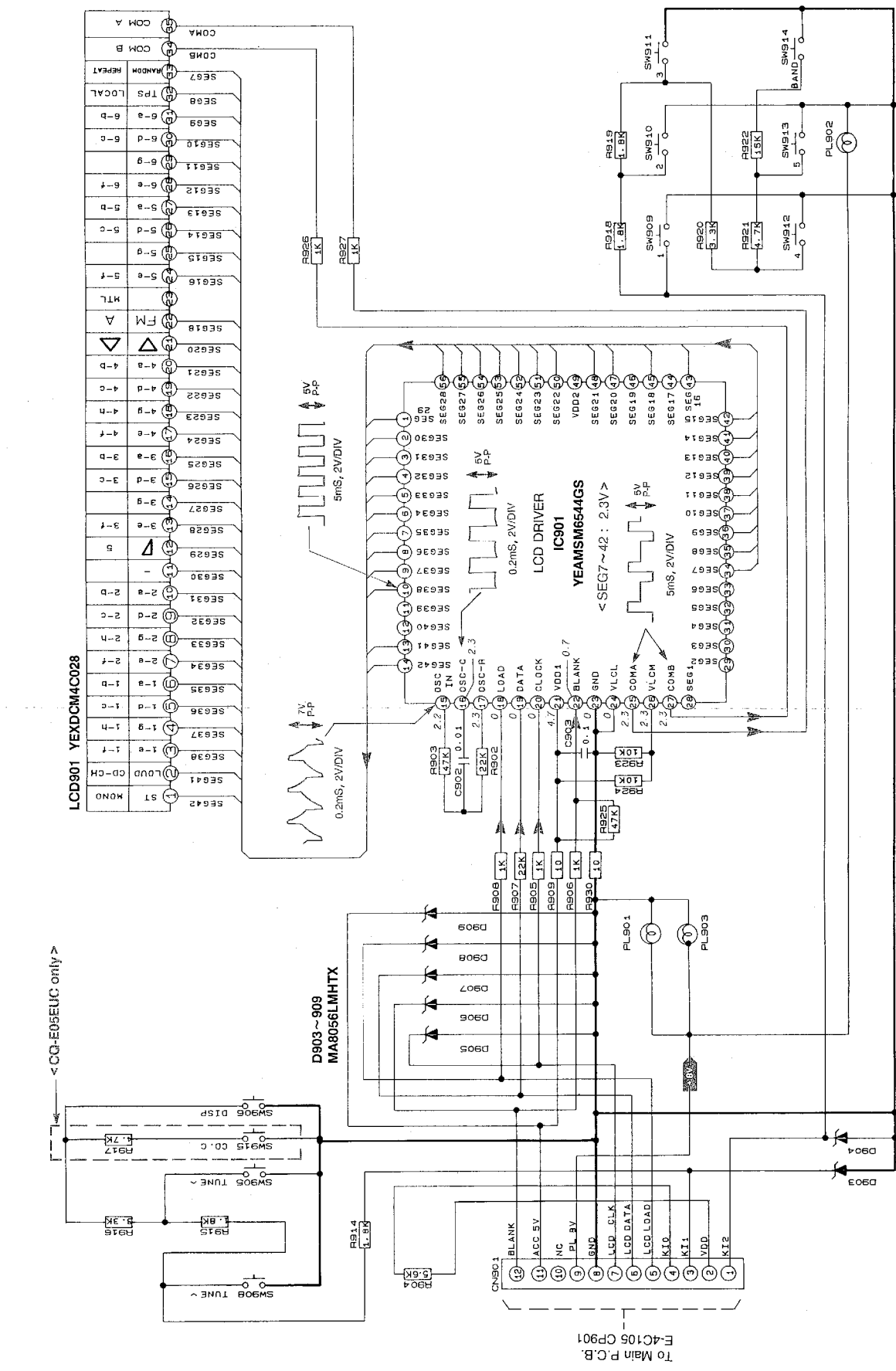


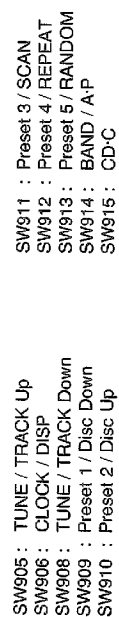
SCHEMATIC DIAGRAM MODEL CQ-E15EUC (Display Block)

<CQ-E05EUC only>



SCHEMATIC DIAGRAM MODEL CQ-E15EUC (Display Block)





Replacement Parts List Models NO. CQ-E15EUC

NOTES :

1. Be sure to make your orders of replacement parts according to this list.
2. Important safety notice : Components identified by Δ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Next to the Ref. No. in the parts list is a location key, to show the general location of the parts shown in the exploded drawing, as in a road map.
4. T marks in remarks column are indicated supply parts of TAMACO.

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
ICs & TRANSISTORS					
MAIN BLOCK					
[E-4C105]					
IC201	YEAMLA3161		IC	1	
IC251	YEAMTA8205AH		IC	1	
IC331	YEAMPD4068BG		IC	1	
IC401	YEAMLC7216M		IC	1	
IC601	YEAM78013662		IC	1	T
IC602	MN1280Q		IC	1	
IC671	YEAMPD4584BC		IC	1	
PA50	ZZPCBCOM46		FM Tuner	1	T
PA100	ZZPCBCOM45		AM Tuner	1	T
Q51	YEAN2SC3330T		Transistor	1	T
Q231	YEAN2SC2785T		Transistor	1	
Q232	YEANDTC323ST		Transistor	1	
Q331	YEAN2SC2785T		Transistor	1	
Q332	YEANDTC323ST		Transistor	1	
Q401	YEAN2SK583		Transistor	1	
Q701	YEAN2SB948A		Transistor	1	T
Q702	YEAN2SC3576T		Transistor	1	
Q703	YEAND1762EF		Transistor	1	
Q704	YEAN2SD2007		Transistor	1	
Q705, 706	YEAND1859T		Transistor	2	
Q707, 708	YEANB123YST		Transistor	2	
Q710	YEANB123YST		Transistor	1	
Q711	YEANDTA144ST		Transistor	1	

MODEL CQ-E15EUC

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
Q712	YEANDTC114ST		Transistor	1	
Q713	YEANDTC114ST		Transistor	1	
Q715	YEANDTA144ST		Transistor	1	
DISPLAY BLOCK					
[E-4C106]					
IC901	YEAMSM6544GS		IC	1	
AUDIO BLOCK					
[E-4C112]					
IC231	YEAMM5218AFP		IC	1	
DIODES					
MAIN BLOCK					
[E-4C105]					
D51 to 56	YEAD1SS133T		Diode	6	
D57	YEAD1SS133T		Diode	1	
D58, 59	YEAD1SS133T		Diode	2	
D62 to 64	YEAD1SS133T		Diode	3	
D253, 254	RVDR104T		Diode	2	T
D353, 354	RVDR104T		Diode	2	T
D601	LN25RP		LED	1	
D606	MA723TA		Diode	1	
D701	YEAD1N5404U		Diode	1	T
D702, 703	YEAD1SS133T		Diode	2	
D704	RVDR104T		Diode	1	T
D705, 706	MA4068LMTA		Diode	2	
D707	RVDR1A4MT		Diode	1	T
D708	YEADRD56JS3T		Diode	1	T
D710	YEADMTZ91BT		Diode	1	T

MODEL CQ-E15EUC						
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	
D711	RVDR104T		Diode	1	T	
D712	YEADMT291BT		Diode	1	T	
D713	YEADRD56JS3T		Diode	1	T	
D714	MA4100LM		Diode	1		
D715	YEAD1SS133T		Diode	1		
D716	YEAD1SS133T		Diode	1		
D718	YEAD1SS133T		Diode	1		
D752	YEADRD51JS3T		Diode	1		
Z701	ERZC07DK470T		ZNR	1	T	
DISPLAY BLOCK						
[E-4C106]						
D903 to 909	MA8056LMHTX		Diode	7		
CAPACITORS						
[E-4C105]						
MAIN BLOCK						
C66	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C201	YEE05X122M		Ceramic, 0.0012MFD 50WV	1		
C202	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1		
C203	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1		
C204	ECFLD273KDY		Ceramic, 0.027MFD 25WV	1	T	
C215	ECEA1CKS101I		Electrolytic, 100MFD 16WV	1		
C226	ECEA1EKS4R7I		Electrolytic, 4.7MFD 25WV	1		
C227	ECEA1HK010		Electrolytic, 1MFD 50WV	1		
C232	ECEA1HKS010		Electrolytic, 1MFD 50WV	1		
C251	ECEA1HKS010		Electrolytic, 1MFD 50WV	1		
C252	YEU05B102K		Ceramic, 0.001MFD 50WV	1		
C253	ECEA1CU100		Electrolytic, 10MFD 16WV	1		
C254, 255	ECFL1C104KDY		Ceramic, 0.1MFD 16WV	2	T	
C256	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	1		
C259	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C260	ECEA1AU47I		Electrolytic, 470MFD 10WV	1		
C301	YEE05X122M		Ceramic, 0.0012MFD 50WV	1		
C302	ECEA0JKS101I		Electrolytic, 100MFD 6.3WV	1		
C303	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1		
C304	ECFLD273KDY		Ceramic, 0.027MFD 25WV	1	T	
C305	ECEA1EKS4R7I		Electrolytic, 4.7MFD 25WV	1		
C326	ECEA1EKS4R7I		Electrolytic, 4.7MFD 25WV	1		
C327	ECEA1HK010		Electrolytic, 1MFD 50WV	1		
C332	ECEA1HKS010		Electrolytic, 1MFD 50WV	1		
C351	ECEA1HKS010		Electrolytic, 1MFD 50WV	1		
C352	YEU05B102K		Ceramic, 0.001MFD 50WV	1		
C353	ECEA1CU100		Electrolytic, 10MFD 16WV	1		
C354	ECFL1C104KDY		Ceramic, 0.1MFD 16WV	1	T	
C355	ECFL1C104KDY		Ceramic, 0.1MFD 16WV	1	T	
C356	ECEA1EKS3R3I		Electrolytic, 3.3MFD 25WV	1		
C375	ECEA1AU22I		Electrolytic, 220MFD 10WV	1		
C401	YEU05SL180J		Ceramic, 18PF 50WV	1		
C402	YEU05SL150J		Ceramic, 15PF 50WV	1		
C403	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C405	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C406	ECEA1EKS4R7I		Electrolytic, 4.7MFD 25WV	1		
C407	ECEA1AKS101I		Electrolytic, 100MFD 10WV	1		
C601, 602	YEU05SL150J		Ceramic, 15PF 50WV	2		
C605	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C617	YEECFYH0H223		Ceramic, 0.022FD 5.5WV	1		
C618	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1		
C620	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C621	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C622	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C623	YEU05B102K		Ceramic, 0.001MFD 50WV	1		
C624	YEU05B221K		Ceramic, 220PFD 50WV	1		
C632	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		
C671	YEE05Y103N		Ceramic, 0.01MFD 50WV	1		

MODEL CQ-E15EUC

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
C701	ECEA1CU222YE		Electrolytic , 2200MFD 16WV	1	T
C702	ECFLD103KDY		Ceramic, 0.01MFD 25WV	1	T
C703	ECEA1HKS010I		Electrolytic, 1MFD 50WV	1	
C704	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C707	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C708	ECEA1CU331		Electrolytic , 330MFD 16WV	1	
C709	ECEA1CU101		Electrolytic , 100MFD 16WV	1	
C710	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C711	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C712	ECEA1AKS221I		Electrolytic, 220MFD 10WV	1	
C720	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C731	ECEA0JKS220I		Electrolytic, 22MFD 6.3WV	1	
C751	ECEA1CKS100I		Electrolytic, 10MFD 16WV	1	
C753	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C754	YEE05Y103N		Ceramic, 0.01MFD 50WV	1	
C756	ECEA1CU470		Ceramic, 47MFD 16WV	1	
CS701	YECCL5S222T		Shield through Capacitor	1	
[E-4C106]					
DISPLAY BLOCK					
C902	ECUV1H103KBN		Ceramic, 0.01MFD 50WV	1	T
C903	ECUV1C104KBN		Ceramic, 0.1MFD 16WV	1	T
[E-4C112]					
AUDIO BLOCK					
C228	ECUV1H223KBN		Ceramic, 0.022MFD 50WV	1	T
C229	ECUV1H102KBN		Ceramic, 0.001MFD 50WV	1	T
C230	ECUV1H223KBN		Ceramic, 0.022MFD 50WV	1	T
C231	ECUV1H331JN		Ceramic, 330PFD 50WV	1	T
C328	ECUV1H223KBN		Ceramic, 0.022MFD 50WV	1	T
C329	ECUV1H102KBN		Ceramic, 0.001MFD 50WV	1	T
C330	ECUV1H223KBN		Ceramic, 0.022MFD 50WV	1	T

RESISTORS

MAIN BLOCK

[E-4C105]

R65	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R60	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R61	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R62	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R63	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R64	ERDS2TJ223		Carbon, 22k ohms 0.25W	1	
R65	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R66	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R67	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R68	ERDS2TJ563		Carbon, 56k ohms 0.25W	1	
R69	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R70	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R71	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R72	ERDS2TJ153		Carbon, 15k ohms 0.25W	1	
R201	ERDS2TJ333		Carbon, 33k ohms 0.25W	1	
R202	ERDS2TJ270		Carbon, 27 ohms 0.25W	1	
R203	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R204	ERDS2TJ124		Carbon, 120k ohms 0.25W	1	
R207	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R210	ERDS2TJ220		Carbon, 22 ohms 0.25W	1	
R215	ERDS2TJ221		Carbon, 220 ohms 0.25W	1	
R221	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1	
R222	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1	
R223	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R224	ERDS2TJ124		Carbon, 120k ohms 0.25W	1	

MODEL CQ-E15EUC													
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks		Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks	
R238	ERD25TJ102		Carbon, 1k ohms 0.25W	1			R614, 615	ERD25TJ102		Carbon, 1k ohms 0.25W	2		
R239	ERDS2TJ223		Carbon, 22k ohms 0.25W	1			R620	ERDS2TJ103		Carbon, 10k ohms 0.25W	1		
R240	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1			R621	ERDS2TJ101		Carbon, 100 ohms 0.25W	1		
R251	ERDS2TJ122		Carbon, 1.2k ohms 0.25W	1			R623, 624	ERDS2TJ103		Carbon, 10k ohms 0.25W	2		
R252	ERDS2TJ331		Carbon, 330 ohms 0.25W	1			R626	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		
R253	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1			R630, 631	ERDS2TJ102		Carbon, 1k ohms 0.25W	2		
R254	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1			R632	ERD25TJ470		Carbon, 47 ohms 0.25W	1		
R255	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1			R633	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		
R256	ERDS2TJ681		Carbon, 680 ohms 0.25W	1			R634	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		
R301	ERDS2TJ333		Carbon, 33k ohms 0.25W	1			R635, 636	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	2		
R302	ERDS2TJ270		Carbon, 27 ohms 0.25W	1			R637	ERDS2TJ104		Carbon, 100k ohms 0.25W	1		
R303	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1			R638	ERD25TJ473		Carbon, 47k ohms 0.25W	1		
R304	ERDS2TJ124		Carbon, 120k ohms 0.25W	1			R640	ERD25TJ473		Carbon, 47k ohms 0.25W	1		
R310	ERD25TJ220		Carbon, 22 ohms 0.25W	1			R641, 642	ERD25TJ473		Carbon, 47k ohms 0.25W	2		
R321	ERDS2TJ822		Carbon, 8.2k ohms 0.25W	1			R643	ERDS2TJ473		Carbon, 47k ohms 0.25W	1		
R322	ERDS2TJ472		Carbon, 4.7k ohms 0.25W	1			R644 to 646	ERDS2TJ473		Carbon, 47k ohms 0.25W	3		
R323	ERDS2TJ473		Carbon, 47k ohms 0.25W	1			R671 to 673	ERDS2TJ104		Carbon, 100k ohms 0.25W	3		
R324	ERDS2TJ124		Carbon, 120k ohms 0.25W	1			R674 to 676	ERDS2TJ103		Carbon, 10k ohms 0.25W	3		
R338	ERD25TJ102		Carbon, 1k ohms 0.25W	1			R677	ERDS2TJ103		Carbon, 10k ohms 0.25W	1		
R339	ERDS2TJ223		Carbon, 22k ohms 0.25W	1			R678	ERD25TJ102		Carbon, 1k ohms 0.25W	1		
R340	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1			R679	ERD25TJ102		Carbon, 1k ohms 0.25W	1		
R351	ERDS2TJ122		Carbon, 1.2k ohms 0.25W	1			R680	ERDS2TJ102		Carbon, 1k ohms 0.25W	1		
R352	ERDS2TJ331		Carbon, 330 ohms 0.25W	1			R701	ERD25TJ681		Carbon, 680 ohms 0.25W	1		
R353	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1			R702	ERD25TJ3R3		Carbon, 3.3 ohms 0.25W	1		
R354	ERDS2TJ2R2		Carbon, 2.2 ohms 0.25W	1			R703	ERDS2TJ473		Carbon, 47k ohms 0.25W	1		
R355	ERDS2TJ562		Carbon, 5.6k ohms 0.25W	1			R706	ERD25TJ221		Carbon, 220 ohms 0.25W	1		
R356	ERDS2TJ681		Carbon, 680 ohms 0.25W	1			R707	ERDS2TJ470		Carbon, 47 ohms 0.25W	1		
R401 to 403	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	3			R708	ERD25FJ2R7		Carbon, 2.7 ohms 0.25W	1		
R404, 405	ERDS2TJ103		Carbon, 10k ohms 0.25W	2			R709	ERD25FJ3R3		Carbon, 3.3 ohms 0.25W	1		
R522, 523	ERDS2TJ103		Carbon, 10k ohms 0.25W	2			R710	ERDS2TJ470		Carbon, 47 ohms 0.25W	1		
R602	ERDS2TJ473		Carbon, 47k ohms 0.25W	1			R711	ERDS2TJ181		Carbon, 180 ohms 0.25W	1		
R603	ERDS2TJ152		Carbon, 1.5k ohms 0.25W	1			R712	ERDS2TJ221		Carbon, 220 ohms 0.25W	1		
R605 to 607	ERDS2TJ102		Carbon, 1k ohms 0.25W	3			R713	ERDS2TJ222		Carbon, 2.2k ohms 0.25W	1		
R611, 612	ERD25TJ102		Carbon, 1k ohms 0.25W	2			R714	ERDS2TJ682		Carbon, 6.8k ohms 0.25W	1		

MODEL CQ-E15EUC

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
R716	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R718	ERDS2TJ104		Carbon, 100k ohms 0.25W	1	
R719	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R720	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R721	ERD25TJ102		Carbon, 1k ohms 0.25W	1	
R722	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R724	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
R725	ERDS2TJ471		Carbon, 470 ohms 0.25W	1	
R730	ERDS2TJ102		Carbon, 1k ohms 0.25W	1	
R731	ERDS2TJ473		Carbon, 47k ohms 0.25W	1	
R752	ERDS2TJ103		Carbon, 10k ohms 0.25W	1	
J72	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
J73	ERD25TJ222		Carbon, 2.2k ohms 0.25W	1	
DISPLAY BLOCK					
R902	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R903	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R904	ERJ6GEYJ562		Chip, 5.6k ohms 0.1W	1	
R905, 906	ERJ6GEYJ102		Chip, 1k ohms 0.1W	2	
R907	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R908	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R909	ERJ6GEYJ100		Chip, 10 ohms 0.1W	1	
R914, 915	ERJ6GEYJ182		Chip, 1.8k ohms 0.1W	2	
R916	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R917	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R918, 919	ERJ6GEYJ182		Chip, 1.8k ohms 0.1W	2	
R920	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R921	ERJ6GEYJ472		Chip, 4.7k ohms 0.1W	1	
R922	ERJ6GEYJ163		Chip, 15k ohms 0.1W	1	
R923, 924	ERJ6GEYJ103		Chip, 10k ohms 0.1W	2	
R925	ERJ6GEYJ473		Chip, 47k ohms 0.1W	1	
R926	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
AUDIO BLOCK					
R226	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R227	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R228	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R229	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R230	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R326	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R327	ERJ6GEYJ682		Chip, 6.8k ohms 0.1W	1	
R328	ERJ6GEYJ223		Chip, 22k ohms 0.1W	1	
R329	ERJ6GEYJ183		Chip, 18k ohms 0.1W	1	
R330	ERJ6GEYJ102		Chip, 1k ohms 0.1W	1	
R737	ERJ6GEYJ332		Chip, 3.3k ohms 0.1W	1	
R738	ERJ6GEYJ392		Chip, 3.9k ohms 0.1W	1	
CONNECTORS					
MAIN BLOCK					
CN1	YEAET1H4106		Connector, 6P	1	T
CN2	YEAET1H4105T		Connector, 5P	1	T
CN201	YEAET2011P05		Connector, 5P	1	T
CN701	YEAETACCON005		Connector, 12P	1	T
CN751	YEAET2011P06		Connector, 6P	1	T
CP601	YEAETJCA11		Connector, 11P	1	
CP901	YEAET012298		Connector, 12P	1	
CP671	YAU074C017ZA		Connector RCA Cord	1	T
CP672	YAU074C020ZA		Connector RCA Cord	1	T

MODEL CQ-E15EUC					
Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
DISPLAY BLOCK					
CN901	YEA012282		Connector, 12P	1	
AUDIO BLOCK					
CN602	YEA04CDIN019		Connector, 8P DIN	1	T
CN671	YEA0204C06HU		Connector, 6P	1	T
CP301	YEA04C01052		Connector, 6P	1	T
SWITCHES					
SW905	YEA094C017		Switch	1	T
SW906	YEA09245		Switch	1	
SW908 to 911	YEA094C017		Switch	4	T
SW912 to 914	YEA09245		Switch	3	
SW915	YEA09245		Switch	1	
CRYSTALS					
XL401	YEXL49U072TA		Crystal OSC	1	
XL601	YEXL49U038TA		Crystal OSC	1	
COILS					
L601	YELT02CR22KT		Coil	1	
L701	YETQ024C014		Choke Coil	1	T
THERMISTOR					
PT701	YERT6AR4R7MT		Thermistor	1	
LCD					
LD901	YEXDCM4C028		LCD	1	T
VARIABLE RESISTORS					
VR101	YEVK4C09B010		Variable Resistor	1	T
VR232	YEVK4C12A013		Variable Resistor	1	T
INSTALLATION PARTS					
	FX0214C141YA		Mounting Collar	1	T
	YAJ024C034YA		Power Connector	1	T
	XVG5C25FXS		Hex. Bolt, (5mm ϕ $\times$ 25mm)	1	
	XNG5AFXS		Hex. Nut, (5mm ϕ)	2	
	XWA5BFX		Spring Washer, (5mm ϕ)	2	
	XWG5FX		Plain Washer, (5mm ϕ)	2	
	XWC5CFX		Toothed Lock Washer, (5mm ϕ)	1	
	YELV014C002A		Mounting Bolt, 5mm $\times$ 8mm	1	T
	YFEG044C002		Stay	1	T
	YFC054C043ZA		Removable Face Plate Case	1	T
INSTRUCTION BOOK					
	YFM284C227ZA		Operating Instructions	1	T

MODEL CQ-E15EUC

Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
MISCELLANEOUS					
Z51	YEAL02007T		Neon Tube	1	
PL701	YEAL01202		Pilot Lamp	1	
PL901 to903	YEAL01202		Pilot Lamp	3	
F1	Δ XBB1F70NS5		Fuse, 7A	1	
F2	Δ XBB1F10NR5		Fuse, 1A	1	
1	(4-C) YFA034C029ZA		Upper Cover	1	T
2	(1-B) YFA054C021ZA		Button Cover	1	T
3	(1-B) YFV014C032ZA		Insulation Sheet	1	T
4	(2-C) YFA014C049ZA		Chassis Ass'y	1	T
5	(3-C) YFF014C027ZA		Heat Sink	1	T
6	(2-B) FX0214C148ZA		Handle Bracket (L)	1	T
7	(2-C) FX0214C140ZA		Handle Bracket (R)	1	T
8	(2-C) YAA104C700ZA		ANT Jack	1	T
9	(2-B) FX0214C155ZA		Bracket, VR	1	T
10	(2-B) YFC024C280ZA		Escutcheon Ass'y (Unit)	1	T
11	(2-A) YFE074C045ZA		Knob (H) Ass'y	1	T
12	(2-A) YFE074C026		Knob (BT)	1	T
13	(2-A) YFE074C048ZA		Knob (B/T)	1	T
14	(1-A) YFC024C276ZA		Cover (Detacher)	1	T
15	(2-A) YFC054C044ZA		Trim Plate	1	T
17	(2-A) YFC024C324ZA		Escutcheon, Removable	1	T
18	(2-A) YFE134C142ZA		Button, TUNE/TRACK	1	T
19	(2-A) YFE134C139ZA		Button, EJECT	1	T
20	(2-A) YFE134C141ZA		Button, REW	1	T
21	(2-A) YFE134C140ZA		Button, FF	1	T
22	(2-A) FX0054C028ZA		Spring	3	T
23	(2-A) YFE134C146ZA		Button, CD. C	1	T
24	(2-A) YFE134C147ZA		Button, (-)	1	T
25	(2-A) YFE134C150ZA		Button, Release	1	T
26	(2-A) FX0054C027ZA		Spring	1	T
27	(2-A) YFE134C143ZA		Button, Perset 1, 2	1	T
28	(2-A) YFE134C144ZA		Button, Perset 3	1	T

MODEL CQ-E15EUC					Ref. No.	Part No.	Part Code	Part Name & Description	Pcs set	Remarks
TAPE PLAYER PARTS										
HEAD										
H	(2-C)	MR25P-KF015		Head	1	T				40009 (95, 5, 27)
SWITCHES										
SW1	(2-C)	YEAS07136		Auto Reverse Switch	1					
SW2	(3-A)	YEAS134C001		Muting Switch	1	T				
SW3	(3-B)	YEAS23152		Radio/Tape Selector	1					
MECHANICAL PARTS										
100	(2-A)	YESFA01522		Chassis Ass'y	1					
101	(3-B)	YASAK01082		Motor Ass'y (1840-01-317)	1	T				
102	(3-B)	YEFX003317		Main Gear	1					
103	(3-C)	YEFX249339		Change Plate Ass'y	1					
104	(3-C)	YEFX005956		Head Switch Spring	1					
105	(3-C)	YEFX011014		Main Plate	1					
106	(3-C)	YEFX233268		Pinch Roller Arm (F) Ass'y	1					
107	(3-C)	YEFX013014		Trigger & Stop Arm Actuator	1					
108	(3-C)	YEFX249340		F.R (FF.REW) Lock Plate B	1					
109	(3-C)	YEFX0051286		F.R (FF.REW) Lock Spring	1					
110	(2-C)	YEFX026106A		Center Pulley (C)	1					
111	(2-B)	YEFX0051293		Control Spring (C)	1					
112	(2-B)	YEJS06061		Collar Screw	1					
113	(2-C)	YEAP1697		Head PCB	1					
114	(3-C)	YEFX0051287		Trigger & Stop Arm Actuator Spring	1					
115	(2-A)	YEFX233269		Pinch Roller Arm (R) Ass'y	1					
116	(2-C)	YEFX0212249		Pull Plate Ass'y	1					
MODEL CQ-E15EUC										
117	(1-C)	YEFX026099		Head Plate Roller	1					
118	(2-C)	YEFX0461025		Head Panel Ass'y	1					
119	(2-C)	YEFX239287		Tape Guide	1					
120	(2-C)	YEFX005961		Head Adjust Spring	1					
121	(2-C)	YEFX013013		Pinch Roller Actuator	1					
122	(2-C)	YEFX0051288		Pinch Roller Spring	1					
123	(1-C)	YEFX0051423		Head Panel Spring	1					
124	(1-C)	YEFX213191		Flywheel Ass'y	2					
125	(1-B)	YEFR03070		Main Belt	1					
126	(1-B)	YEFA011015		Main Gear Plate Ass'y	1					
127	(1-B)	YEFX046759		End Detector Plate (F)	1					
128	(1-B)	YEFX0461026		Take Up Gear Plate (F) Ass'y	1					
129	(1-B)	YEFX0461027		Take Up Gear Plate (R) Ass'y	1					
130	(1-B)	YEFX0051289		Take Up Gear Plate Spring	1					
131	(1-C)	YEFX003400		FF Gear	2					
132	(1-A)	YEFX003271A		FF & Take Up Gear	2					
133	(2-A)	YEFX026116		FF.REW Clutch Ass'y	1					
134	(2-A)	YEFX003272		Device Gear (Upper)	1					
135	(1-A)	YEFX003273		Device Gear (Lower)	1					
136	(2-A)	YEFX003274		Device & Trigger Stop Arm Gear	1					
137	(1-B)	YEFX0461028		End Sensing Plate	1					
138	(2-B)	YEFX003275B		Trigger & Stop Arm Actuator Gear	1					
139	(2-B)	YEFX003276		Turn Over Gear	1					
140	(2-B)	YEFX046765		Stop Arm	1					
141	(2-B)	YEFX0051290		Trigger & Stop Arm Spring	1					
142	(1-B)	YEFX0461029		Trigger Arm	1					
143	(2-A)	YEFX005967		End Detector spring	2					
144	(2-A)	YEFX026101		End Detector Piece	1					
145	(2-A)	YEFX209239		Take Up Reel Sub-Ass'y	1					
146	(2-A)	YEFX026102		Turn Over Gear Collar	1					
147	(2-A)	YEFX209240		Take Up Reel Sub-Ass'y	1					
148	(3-B)	YEFX003456		Center Gear (B)	1					
149	(2-A)	YEFX0461030		Push Lever Ass'y	1					
150	(2-A)	YEFX0461031		Cassette Case & Head Panel Push Plate Ass'y	1					

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST

■ The symbols next to the screws indicate as follows.

4

3

3

2

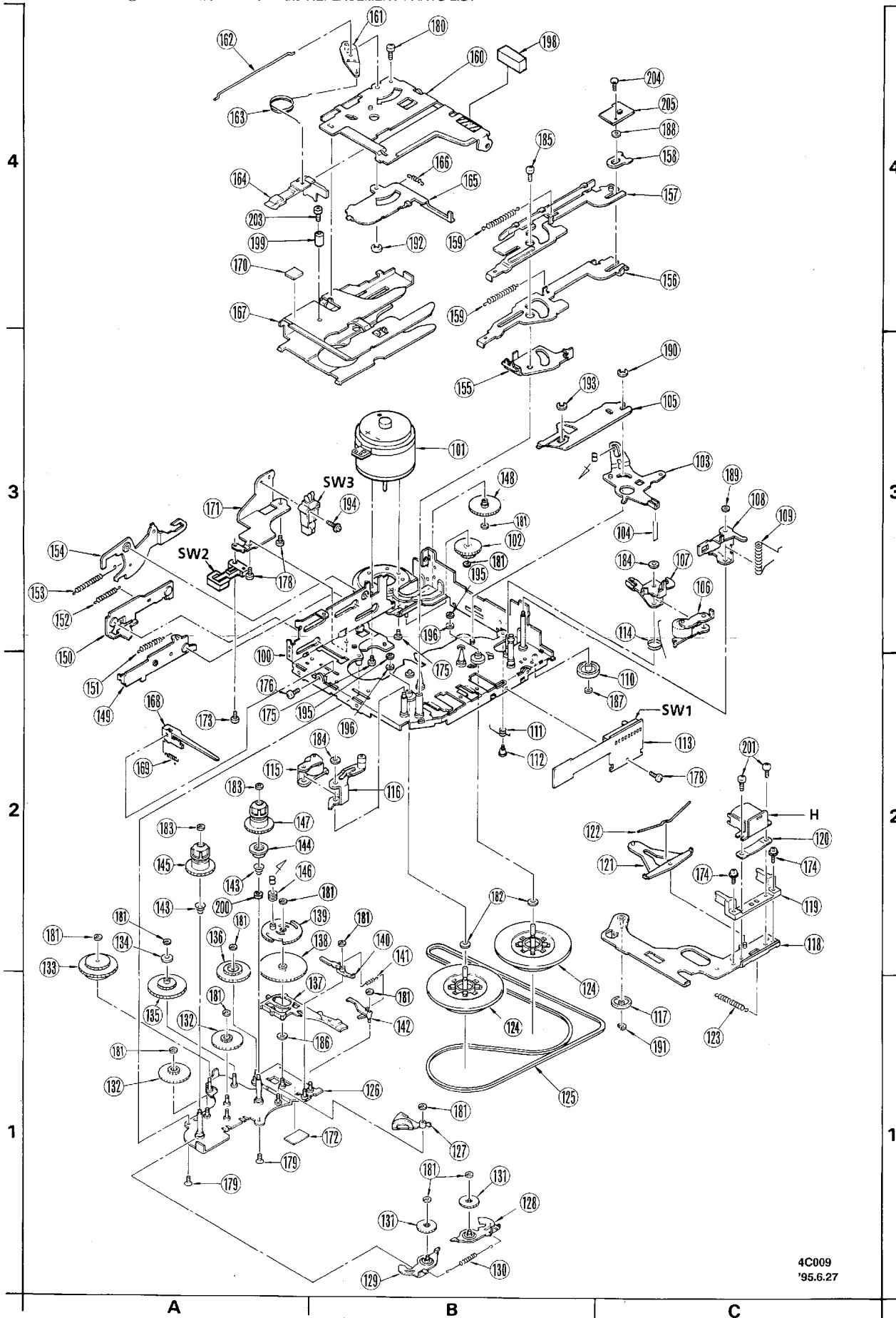
13

1

1

EXPLODED VIEW (Tape Deck)

■ Numbers in ○ are indicated REF.No. in the REPLACEMENT PARTS LIST



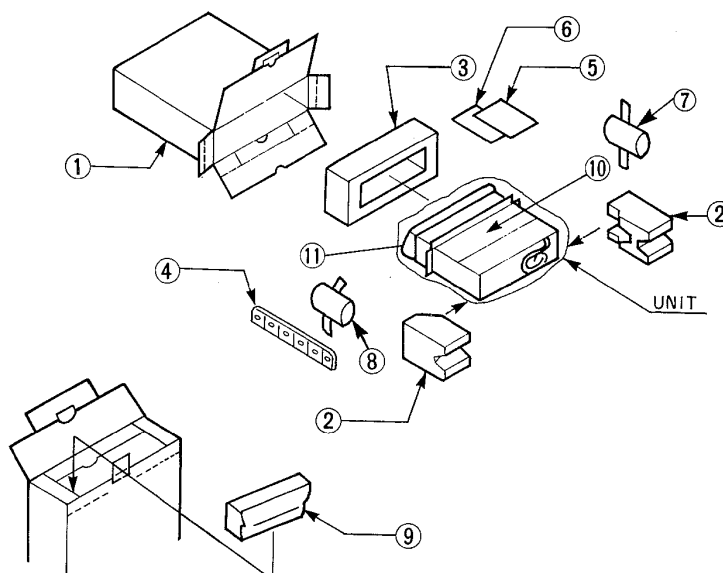
4C009
'95.6.27

MODEL CQ-E15EUC

Ref. No.	Part No.	Part Name & Description	Pcs set	Remarks
151 (2-A)	YEFX005969	Push Lever Spring	1	
152 (3-A)	YEFX0051291	Cassette Case Head Panel Spring E	1	
153 (3-A)	YEFX005971	Lift Up Lever Spring	1	
154 (3-A)	YEFX046770	Lift Up Lever B	1	
155 (3-B)	YEFX0212250	FF-REW Bracket	1	
156 (4-C)	YESFX046028	REW Lever	1 T	
157 (4-C)	YESFX046027	FF Lever	1 T	
158 (4-C)	YEFX0461034	Program Changer Plate	1	
159 (4-B)	YEFX0051292	FF-REW Lever spring	2	
160 (4-B)	YEFX01757	Case Lifter	1	
161 (4-B)	YEFX0461035	Pack Eject Plate Ass'y	1	
162 (4-A)	YEFX005973	Pack Eject Spring	1	
163 (4-A)	YEFX005974B	Turn Over Spring	1	
164 (4-A)	YEFX0461020	Pack Slider	1	
165 (4-B)	YEFX046776	Cassette Detecting Plate	1	
166 (4-B)	YEFX005975	Cassette Detecting Spring	1	
167 (4-A)	YEFX01758	Cassette Case	1	
168 (2-A)	YEFX046777	Turning Plate	1	
169 (2-A)	YEFX005976	Spring	1	
170 (4-A)	YEFX01404	Cushion Rubber	1	
171 (3-A)	YEFX0461036	Switch Bracket (SW3)	1	
172 (1-B)	YEFX02090	Cushion Felt	1	
173 (2-A)	YEJS06055	Camera Screw Flush	1.7 x 3.5	1
174 (2-C)	YEJS06056	⊕ Screw w/washer	2.0 x 5	2
175 (2-A)(2-B)	YEJS06099	Camera Screw, Flat	2.0 x 2.5	2
176 (2-A)	YEJS06057	Camera Screw	2.0 x 2	1
178 (2-C)(3-A)	YEJS06058	Camera Screw, Tapping	2.0 x 3	3
179 (1-A)	YEJS06059	Camera Screw, Flat	2.0 x 3.5	2
180 (4-B)	YEJS06060	Camera screw, Tapping	2.0 x 4	1
181	YEW05043	Polyslider	1.2 x 3.0 x 0.25	13
182 (2-B)	YEW05044	Polyslider	2.1 x 0.5 x 0.13	2
183 (2-A)	YEW05045	Polyslider	1.6 x 3.4 x 0.3	2
184 (2-B)(3-C)	YEW05046	Polyslider	2.1 x 5.0 x 0.4	2
185 (4-B)	YEJS06075	Camera Screw	2.6 x 4.5	1

Ref. No.	Part No.	Part Name & Description	Pcs set	Remarks
186 (1-B)	YEW04028	Polyslider	3.1 x 4.8 x 0.1	1
187 (2-C)	YEW05055	Polyslider	0.85 x 2.8 x 0.25	1
188 (4-C)	YEW05078	Polyslider	3.0 x 6.0 x 0.4	1
189 (3-C)	YEW05053	Polyslider	1.6 x 3.8 x 0.3	1
190 (3-C)	YEFX014028	E Ring (B) Special	1.5	1
191 (1-C)	YEFX014029	E Ring	1.2	1
192 (4-B)	YEFX014030	E Ring	1.5	1
193 (3-B)	YEFX014031	E Ring	2.0	1
194 (3-B)	YEJS06103	⊕ Screw w/washer	2.0 x 8	1
195 (2-A)(3-B)	YEW05079	Polyslider	1.5 x 3.2 x 0.5	2
196 (2-B)(3-B)	YEW05080	Polyslider	1.8 x 3.2 x 0.2	2
199 (4-A)	YESFW07003	C Stopper		1
200 (2-A)	YEW05081	Polyslider	3.6 x 5 x 0.13	1
201 (2-C)	YEJS06105	Camera Screw	2.0 x 3	2
203 (4-A)	YEJS06102	Camera Screw	2.0 x 2.5	1
204 (4-C)	YESJS01069	Camera Screw	1.6 x 3	1 T
205 (4-C)	YESFX046038	Reinforcement Plate		1 T

PACKING PARTS LIST



- Item numbers listed below should not order regular spare parts. (not available)

Item No.	Part No.	Part Name & Description	Q'ty	Remarks
①	—	Inner Carton	1	Not available
②		Packing Pad R and L	1	Not available
③		Packing Pad Frount	1	Not available
④	YEFG044C002	Rear Support Strap	1	
⑤	FP-182	Printing Kit for Canada	1	Not available
⑥	FP-181	Instruction Books Ass'y	1	Not available
	YFM284C227ZA	Instruction Book	(1)	
		Warranty Card for USA	(1)	Not available
		SVC Card	(1)	Not available
⑦	FP-105	Screw Kit	1	Not available
	XVG5C25FXS	Hex. Bolt (5mm ϕ × 25mm)	(1)	
	YEJV014C002	Hex. Bolt (5mm ϕ × 17mm)	(1)	
	XWAG5BFX	Spring Washer (5mm ϕ)	(2)	
	XNG5AFXS	Hex. Nut (5mm ϕ)	(2)	
	XWG5FX	Plain Washer (5mm ϕ)	(2)	
	XWC5CFX	Toothed Lock Washer (5mm ϕ)	(1)	
⑧	YAJ024C034ZA	Power Connector	1	
⑨	YFC054C043ZA	Removable Face Plate Case	1	
⑩	FX0214C141ZA	Mounting Collar	1	
⑪	YFC054C044ZA	Trim Plate	1	